PERSONNEL PLACEMENT

LINE CLASSIFIED ADVERTISEMENTS

- Deadlines: Ads are due by Thursday, 10 a.m., 2 weeks prior to the issue date. Science is published each Friday, except the last Friday of the month. Advertisements must be submitted in writing.

- How to Submit a Classified Ad: Prepare double-spaced typewritten copy. Do not include any abbreviations. Science will edit and typeset ads according to Science guidelines. Deadline for applications stated in ad must be at least 2 weeks after date of publication. Include billing information, and desired publication date.

- Mail or FAX materials to: Science Classified Advertising 1333 H Street, N.W., Room 940 Washington, DC 20005 Telephone: 202-326-8555 FAX: 202-682-0816

- Rates: Ads are $41 per line; $410 minimum. One line equals 52 characters and spaces; centered headings equal 32 characters and spaces. A 3% cash discount is granted to all prepaid ads. If you would like Science to give estimated cost, indicate on letter.

- Ads from Outside the U.S.: Prepayment made in U.S. dollars by checks drawn on U.S. banks is required.

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For rates and information about fractional display ads (all ads ¼ page and larger) and all Marketplace listings, contact: Scherago Associates 11 Penn Plaza, Suite 1003 New York, NY 10001 Telephone: 212-730-1050 FAX: 212-382-3725

CONDITIONS: Personnel advertising is accepted only with the understanding that the advertisers do not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, or physical or mental disability, or sexual preference. The AAAS encourages employers to actively recruit and employ underrepresented minority groups. Science reserves the right, at its discretion, to decline to publish advertisements submitted to it.

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POSITIONS OPEN

BIOCHEMISTRY
ALBERT EINSTEIN COLLEGE OF MEDICINE

The Department of Biochemistry at the Albert Einstein College of Medicine seeks ASSISTANT PROFESSORS for non-tenure-track positions. Salaries and other resources to initiate research programs are generous. Research strengths of the Department include genetic analysis of gene expression, protein structure including crystallography, enzymology, membrane signaling and metabolic regulation. Applicants with research interests in these areas are preferred but research excellence in related areas of biochemistry will also be considered. The Albert Einstein College of Medicine in Yeshiva University is an Equal Opportunity Employer. Send curriculum vitae and the names of three or more references to: Ms. Joan Savastano, Administrator, Department of Biochemistry, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. Applications should be received before 1 December 1991. Equal Opportunity Employer.

MICROBIOLOGIST
SWARTHMORE COLLEGE

The Biology Department at Swarthmore College seeks a microbiologist for a non-tenure-track position beginning September 1992, pending administration approval. This position will be at the ASSISTANT PROFESSOR level and entails teaching a senior-level micro-biology course, an advanced course involving techniques of molecular biology, and participation in introductory biology. Ph.D. required. Please send curriculum vitae, statement of teaching and research interests, and three letters of recommendation to chaired by Dr. Richard Scherago, Department of Biology, Swarthmore College, PA 19081-1937. Women and minorities are encouraged to apply. Swarthmore College is an Equal Opportunity Employer.

UNIVERSITY OF LOUISVILLE
SCHOOL OF MEDICINE
DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

One tenure-track ASSISTANT PROFESSOR position is available for the spring of 1992. The University of Louisville is part of the State of Kentucky system and the department is undergoing a well-funded expansion at all levels. Candidates should hold a Ph.D., D.V.M., or M.D. degree and have at least 2 years of postdoctoral experience. Successful applicants receive generous start-up support, 12-month-three-quarter salary, and are expected to excel in teaching medical and graduate students. They should be able to establish independent molecularly oriented research programs in one of four areas: virology, immunology, pathogenic mechanisms, or cell biology. Applicants should send curriculum vitae, statement on research interests, and the names of three references by 30 November 1991 to: Dr. Gordon D. Ross, Chairman, Department of Microbiology and Immunology, University of Louisville, Louisville, KY 40292. University of Louisville is an Equal Opportunity Employer that encourages applications from women and minorities.

LAWRENCE UNIVERSITY
ASSISTANT PROFESSOR
MOLECULAR BIOLOGY

Tenure-track position in the biology department of a small, high-quality arts college. Duties include developing a course in modern molecular biology for undergraduate biology and chemistry majors, one or more courses in area of specialty, and supervision of undergraduate research. All department members contribute to the introductory biology course and to the freshmen science program. Candidates should have significant postdoctoral research experience will be given preference. A commitment to excellence in research-oriented undergraduate education is required. Substantial start-up funds are available for purchase of instructional equipment. Responsibilities will begin no later than fall term, 1992. Applicants should send curriculum vitae, undergraduate transcripts, a brief description of research and teaching interests, and have three letters of reference sent to: Dr. Richard H. Holm, Department of Chemistry, Lawrence University, Appleton, WI 54912. To insure consideration all application materials must arrive by 1 December 1991. Lawrence University promotes Equal Opportunities for all.

HARVARD UNIVERSITY
DEPARTMENT OF CHEMISTRY
ASSISTANT PROFESSOR OF INORGANIC CHEMISTRY

Applications are invited for an assistant professorship in any area of inorganic chemistry. Applicants should arrange to have three letters of recommendation sent independently and should provide curriculum vitae and brief descriptions of their future research plans. Harvard University is an Affirmative Action, Equal Opportunity Employer. Applications from women and minority members are encouraged. Applications, including materials, should be submitted no later than 1 November 1991 to: Professor Richard H. Holm, Department of Chemistry, Harvard University, 12 Oxford Street, Cambridge, MA 02138.

PLANT MOLECULAR BIOLOGY
ASSISTANT PROFESSOR

The Department of Biology at the University of Michigan invites applications for a tenure-track ASSISTANT PROFESSOR position. We seek individuals who employ the techniques of molecular biology to attack significant problems in plant biology. The department has just completed a $13-million building renovation, and the new faculty member will be housed in a modern, modern laboratory. Facilities for DNA synthesis and molecular graphics are within the department; peptide synthesis and DNA and RNA sequencing facilities are available nearby. In addition, the Matthaei Botanical Gardens, a unit of the department, provides facilities for the growth of experimental plant materials. The successful candidate will be expected to conduct an active research program and to participate in the graduate and undergraduate teaching programs of the Department. Applicants should submit current curriculum vitae and a statement of research plans and should ask at least three referees to send letters of recommendation to:

Dr. Erna Ploegsma
Chair, Plant Molecular Biology Search Committee
Department of Biology
The University of Michigan
Ann Arbor, MI 48109–1048

Deadlines for applications is 1 December 1991. The University of Michigan is an Affirmative Action/Equal Opportunity Employer.
The Rockefeller Foundation announces a program of career development fellowships designed to enable scientists from developing countries, trained at outstanding centers for advanced research in biotechnology, to continue to work at those or other institutions for three months each year, over a period of at least three years, conducting advanced research and keeping abreast of new developments in their fields. The program will focus upon the development and application of advances in molecular and cellular biology and immunology relevant to agricultural, health, reproductive biology, and environmental protection.

Funding will be shared between the Foundation and the host laboratory, with the Foundation providing travel and per diem support. It is hoped that the fellowships will encourage the establishment of ongoing working relationships between outstanding younger scientists working at third world institutions, and research teams at advanced laboratories.

Applicants to this program should have at least Ph.D.- or M.D.-level training, a proven record of scientific productivity, and a permanent position at a research or teaching institution in their home country. A written project proposal must be developed and submitted jointly by the candidate and the laboratory sponsor.

Information about application procedures can be obtained by writing to Biotechnology Career Fellowships, Fellowship Office, Rockefeller Foundation, 1133 Avenue of the Americas, New York, New York 10036, USA.

**ROCKEFELLER FOUNDATION**

**BIOTECHNOLOGY CAREER FELLOWSHIPS**

**SIMON FRASER UNIVERSITY**

**DEPARTMENT OF BIOLOGICAL SCIENCES**

**FOREST ENTOMOLOGY-CHEMICAL ECOLOGY-NEUROPHYSIOLOGY**

Applications are sought for a tenure-track, Assistant Professor position, commencing 1 January, 1992. The successful applicant will be expected to develop an independent research program integrating the disciplines of forest entomology, chemical ecology and neurophysiology. He/she will be part of an interdisciplinary team that is engaged in elucidating the chemistry, biology and practical application of forest insect semiochemicals. We seek a person with postdoctoral experience, a strong record of research accomplishment, a sound background in forest entomology, chemical ecology and electrophysiology, familiarity with analytical chemistry, and ability to teach entomology, ecology and pest management.

Applicants should submit a curriculum vitae, reprints and a statement of current and future research interests, and should arrange to have three letters of recommendation sent to:

**Dr. B. A. McKeown, Chair**
Dept. of Biological Sciences
Simon Fraser University
Burnaby, B. C.
Canada, V5A 1S6

The deadline date for applications is 1 November, 1991. Simon Fraser University is committed to the principle of equity in employment and offers equal employment opportunities to qualified applicants. This advertisement is directed to applicant who at the time of application are eligible for employment in Canada.

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**Post Doctoral Fellowship**

$35,000-$38,000 p.a.

**Division of Plant Industry, Canberra, ACT, Australia**

The research will be directed at understanding how best to manage acid soils and minimize rates of soil acidification under pastures and crops.

This is a Post Doctoral Fellowship for 3 years funded by The Vincent Fairfax Family Foundation. Your job will be to describe and explain how processes occurring during the growth and decay of plants of various species interact with chemical transformations in the soil to determine the amount and distribution of acidity accumulating in soils. One aim of your work will be to define plant characteristics which should be sought in plant improvement programs for acid soils. You will have experiments under controlled conditions and in the field and will need to travel to field sites.

For further information telephone Dr Peter Randall on 61 6 246 5119 or Fax 61 6 246 5000.

Please send your application to: The Recruitment Officer, CSIRO Division of Plant Industry, GPO Box 1600, Canberra, ACT 2601, Australia, by November 1, 1991.

CSIRO is an EQUAL OPPORTUNITY EMPLOYER
You Can't Influence The Future Unless You're Part Of It.

It isn't every day that two world powers unite to make important therapeutic contributions to human health care. In fact, it isn't even once in a decade that a research leader like Du Pont joins forces with a pharmaceutical giant like Merck. Yet, this is now a reality. This new joint-venture pharmaceutical company puts the resources of two powerful R&D leaders within your grasp.

Du Pont Merck is seeking motivated individuals for two-year research fellowship programs. As a postdoctoral fellow, you will have the rare prospect of experiencing and impacting the stimulating world of modern pharmaceutical research. Postdoctoral fellows will receive a comprehensive package including a novel and exciting training environment, competitive salaries and medical benefits. In addition, postdoctoral fellows are encouraged to publish, attend and present their work at scientific meetings. Move with us into the future as we bring our mission of hope to the world community.

Merging Strengths . . .
Emerging Opportunities
INFLAMMATORY DISEASES RESEARCH
Here's a challenging opportunity to investigate the role of intracellular steroid receptors in gene activation and regulation of transcription factors. To qualify, you must have experience with the principles of gene regulation, molecular biological techniques, DNA-protein assays, steroid receptors and/or general transcription factors.

VIRAL DISEASES RESEARCH
This exciting two-year fellowship offers the opportunity to do cutting-edge work in the design of genetic selection methods for identifying and studying protein:protein interactions. If you have a background in genetics and molecular biology and an interest in structural biology, we encourage you to apply.

THROMBOSIS RESEARCH
Enhance your expertise as a member of our multidisciplinary Thrombosis Research group. This is an ideal opportunity for a motivated individual with experience in any of the following areas: platelet and/or endothelial cell biology, integrins and cell adhesion molecules, animal models of thrombosis.

GASTROINTESTINAL PHYSIOLOGY
Apply your expertise in gastrointestinal physiology contributing to a team assessing the barriers to gastrointestinal absorption of poorly absorbed compounds, including peptide analogs, as well as evaluating formulation or structural modification approaches to improving absorption. In vitro, in situ and in vivo models will be used. Proficiency in membrane transport, formulation, or absorption models is desired.

RENAI BIOLOGY
This fellowship is ideal for a highly motivated researcher trained in the area of renal biology or physiology. Expertise in cell isolation/culture, receptor-ligand binding, signal transduction pathways, gene expression and general molecular biological techniques is required. Experience in the renin-angiotensin system is strongly desired.

BIOLOGICAL MACROMOLECULAR/NMR
If you're interested in 2- (and more) dimensional NMR of biological macromolecules with emphasis on design and optimization of pulse sequences, data collection and reduction, assignments and computer programming, you owe it to yourself to explore this fellowship. Facilities include two 600 MHz and one 500 MHz spectrometers equipped for multi-channel, multi-nuclear experiments, networked workstations to SG4D280 and 4D480 servers. X-ray structure calculations and modelling software is available. Protein expression and isotopic labeling expertise is available.

ANALYTICAL RESEARCH & DEVELOPMENT
This fellowship in Analytical Research and Development is ideal for an individual who has a Ph.D. in Analytical Chemistry and experience in microcolumn HPLC, supercritical fluid chromatography, and capillary zone electrophoresis. Familiarity with coupling of the above techniques with mass spectrometry is desired.

NEUROSCIENCE
The following three positions are available in the CNS Diseases Research group to study the mechanism of action of novel therapeutic agents for the treatment of Alzheimer's disease or schizophrenia.

IN VITRO ELECTROPHYSIOLOGY
This is a challenging opportunity to study pre- and post-synaptic mechanisms modulating neurotransmitter release. To qualify; you must have experience recording electrical activity in slices from various brain regions using either single electrode voltage clamp or whole cell patch clamp techniques. Familiarity with personal computer-based data acquisition and analysis is desirable.

MOLECULAR NEUROBIOLOGY
This is an ideal opportunity for an individual with experience in cDNA cloning and a strong background in recombinant DNA technology. A background in expression cloning, molecular biology of receptors or membrane proteins, and/or neuroscience is desired.

PEPTIDE BIOCHEMISTRY/NEUROCHEMISTRY
Apply your expertise with in vivo dialysis to examine peptidergic systems. To qualify, you must have demonstrated surgical abilities and anatomic knowledge of rat brain. Research experience with HPLC, capillary electrophoresis or radio-enzymatic assays is desired.

For prompt confidential consideration, forward a CV and statement of research interests and career goals to: Dr. Lynn W. Enquist, Program Administrator, The Du Pont Merck Pharmaceutical Company, Dept. SCI-20, P.O. Box 80328, Wilmington, DE 19880-0328, EOE.
POSITIONS OPEN

BEHAVIORAL NEUROSCIENTIST

The University of Virginia (UVA), Department of Psychology, invites applications for a tenure-track, ASST. PROFESSOR position in developmental psychology and/or behavioral neuroscience to begin August 1992. We seek an individual with multidisciplinary approaches to the study of brain and behavior relationships. The successful applicant will be an active neuroscience research group within the Department of Psychology and will also participate in the interdepartmental Neuroscience Graduate Program. Submit curriculum vitae, statement of research interests, three or more letters of recommendations, and recent reprints. Applications from women and minorities are encouraged.

The Department of Biological Sciences at Indiana University at South Bend seeks candidates to fill a tenure-track ASSISTANT PROFESSOR position in botany and/or molecular biology. A candidate responsible for teaching anatomy and physiology and upgrading the physiology laboratory in the nursing program. Teaching a course in developmental biology, and developing a research program in molecular biology are expected. Submit curriculum vitae and a letter describing research interests. An M.S. or Ph.D. degree is required, and experience in research is desirable. Applicants should send their curriculum vitae, three letters of recommendation, and a research statement to: Dr. D. Godfrey, Department of Biological Sciences, University of South Bend, P.O. Box 7111, South Bend, IN 46634 by 15 November 1991. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR

NEUROPHARMACOLOGY

Applications are invited for a tenure-track position available in 1992 at the assistant professor level in the Department of Molecular and Behavioral Biology at Emory University in Atlanta, Georgia. The successful applicant should have a Ph.D. degree in pharmacology or a related discipline with research interests in molecular and/or cellular biology. Salary competitive. Applications must be submitted by 15 November 1991. The University of Georgia is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

ASSISTANT PROFESSOR

PLANT CELL BIOLOGY

The Department of Biology of Gonzaga University invites applications for a tenure-track position in plant cell biology beginning 1 June 1992. Gonzaga is a Jesuit comprehensive university in the inland Northwest. Applicants should have a Ph.D. in area of plant biology and preferably have postdoctoral training. They should be broadly trained and committed to teaching in a traditional liberal arts setting. Research is also expected to be integral part of our training opportunities. Thus, development of a research program complementary to those already in place is preferred. Teaching and research facilities in the Department of Biology include a greenhouse, 2700-square-foot lab, and a new 32,000-square-foot wing. The successful applicant will contribute an active research program to the department. Applications should include a letter of interest, a research statement, three letters of recommendation, and a curriculum vitae to: Dr. Robert D. Prusach, Biology Department, Gonzaga University, Spokane, WA 99258. Gonzaga is an Equal Opportunity/ Affirmative Action Employer.

POSITIONS OPEN

EASTERN KENTUCKY UNIVERSITY

GENETICIST—ASSISTANT PROFESSOR. The Department of Biological Sciences, Eastern Kentucky University, invites applications for a tenure-track position in genetics beginning August 1992. Research responsibilities will include an undergraduate genetics course and possible development of upper- and graduate-level courses in our M.S. program, and participation in a nonmajor human heredity course. The successful candidate will be expected to direct upper- and graduate research as well as conduct research in area of specialty. Send letter of application describing teaching philosophy and research goals, curricular materials, and reprints of three or more articles and three letters of references by 15 November 1991 to: Dr. Robert creek, Department of Biological Sciences, Eastern Kentucky is an Equal Opportunity/Affirmative Action Employer. Employment eligibility verification required. Immigration Reform and Control Act of 1986.

NEUROBIOLOGIST

ALZHEIMER’S DISEASE RESEARCH

The Department of Pharmacology and Toxicology of the Medical College of Georgia invites applications for a tenure-track position (ASSISTANT OR ASSOCIATE PROFESSOR) for a neurobiologist with strong interest in Alzheimer’s disease. We seek an experienced investigator who will interact with both basic science and clinical investigators as part of an Alzheimer’s Disease Research Center. The successful candidate will have a proven record of accomplishment. Substantial initial equipment and personnel support will be provided. The Alzheimer’s Disease Research Center is a multidisciplinary approach to the study of this disease which includes active researchers from several basic and clinical departments. Programs include new therapeutic approaches, novel biochemical and molecular studies of etiology. The Clinical Research Division provides access to human tissue and autopoly materials: the Animal Behavior Center utilizes animal models including non-human primates. The candidate will also be expected to develop an independent research program and participate in department teaching programs, including medical and graduate students. Candidates should send curriculum vitae, description of research activities and the names of three references to: Dr. Jerry J. Buccafusco, Chairman, Search Committee, Department of Pharmacology and Toxicology, Medical College of Georgia, Augusta, GA 30911-2300. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR. Targeted areas of research: molecular biology and genetics of calcium and/or bone metabolism. Applicants must be an M.D. or Ph.D. candidate who is a promising investigator to permit initiation of a new independent research program. Extensive collaborative opportunities, new space, start-up support. Service commitment for M.D.s limited to 1 year. The candidate must hold a Ph.D. or M.D. or M.D./Ph.D. degree and have at least 3 years of postdoctoral research training. Salaries/benefits and research startup support are negotiable. Submit curriculum vitae, statement of research interests, and names of three references to: Dr. Ralph B. Aolinghaus, Chairman, Search Committee, Department of Pharmacology (Box 89). The University of Texas M. D. Anderson Cancer Center, Houston, TX 77030. Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

PATHOLOGIST

THE UNIVERSITY OF MICHIGAN MEDICAL SCHOOL DEPARTMENT OF PATHOLOGY

ANN ARBOR, MICHIGAN

The University of Michigan Medical School, Department of Pathology, seeks a Board-certified (or -eligible) pathologist with training and skills in anatomic and clinical pathology. This individual will participate in the service activities of the Clinical Laboratories as well as teaching of medical students. This position will be at the level of INSTRUCTOR, ASSISTANT PROFESSOR, or ASSOCIATE PROFESSOR. The University of Michigan is an Equal Opportunity Employer and welcomes applications from members of minority groups. Applicants should submit a curriculum vitae, a letter of interest, and the names of at least three references should be directed to: Peter A. Ward, M.D., Godfrey D. Stobbe Professor and Chairman, Department of Pathology, The University of Michigan Medical School, M5240 Medical Science I, 1301 Catherine, Ann Arbor, MI 48109-0602.

A nondiscriminatory/Affirmative Action Employer.

Applications are invited for a tenure-track faculty appointment as ASSISTANT PROFESSOR in the Department of Microbiology and Immunology, School of Medicine, at the University of Michigan at Chapel Hill, beginning summer 1992. We seek a candidate with the clear capability to establish and maintain an independent research program in molecular genetics or immunology and who will participate in the teaching of graduate students. A demonstrable post-doctoral experience is required. Preference will be given to applicants who reply before 1 December 1991. Respond to: Dr. Philip Basford, Search Committee, Department of Microbiology and Immunology, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599, including curriculum vitae, statement of research interests, and names of at least three references.

The University of North Carolina at Chapel Hill is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, MOLECULAR NEUROPHARMACOLOGY, TENURE-TRACK POSITION in the Department of Pharmacology. Requirements: Ph.D. degree, postdoctoral experience and potential to obtain extramural funding. Experience in teaching medical and graduate pharmacology. Pharmacologically relevant independent and interest in collaborative research in central control and/or drug targets. The candidate is expected to develop research on the molecular mechanisms of drug action at the cellular and molecular levels. The candidate is expected to develop research plans and three reference letters by 30 September 1992. Send curriculum vitae, recent publications and complete three reference letters by 1 December 1992 to: Dr. Jerry J. Buccafusco, Chairman, Department of Pharmacology, Southern Illinois University School of Medicine, P.O. Box 19250, Springfield, IL 62794-9250, or FAX: 217-524-0145. Equal Opportunity/Affirmative Action Employer.

ASSISTANT OR ASSOCIATE PROFESSOR OF ANATOMY

Applications are invited for tenure-track positions at the assistant or associate professor level. Applicants at the assistant professor level should have a Ph.D., M.D., or equivalent, postdoctoral experience, as active research program with a high potential for attracting external support, and promise of ability as a teacher. Applicants at the associate professor level should have a Ph.D. in ongoing externally funded research program, an established record of scholarship supported by substantial publications, teaching experience, and a record of successful direction of doctoral candidates. Specific research areas are open, although preference will be given to cellular and molecular biology. Areas of specific teaching experience are also open, although ability to teach gross human anatomy is highly desirable. Women and minorities are encouraged to apply.

Send curriculum vitae, bibliography, a brief statement of research and teaching experience, plus names of three references to: Chair, Anatomy Faculty Search Committee The University of Iowa College of Medicine Iowa City, IA 52242. The University of Iowa is an Equal Opportunity/Affirmative Action Employer.

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DEPUTY DIRECTOR
Intramural Research

The National Institutes of Health (NIH) invites nominations and applications for the position of Deputy Director of the NIH for Intramural Research. This is a Civil Service position in the Senior Executive Service (SES), with a salary range of $87,000 to $108,300 per annum. The person selected may also be eligible for Physician's Comparability Allowance ranging from $5,000 to $20,000 per year. A one-year probationary period must be served if the individual selected is not currently in the Senior Executive Service. Members of the Commissioned Corps of the U.S. Public Health Service will be considered.

The Deputy Director administers, manages and oversees the Intramural scientific program for the NIH. S/he is the principal assistant to the Director, NIH, on the substance, quality and effectiveness of NIH Intramural science programs and research policies. The Deputy Director is responsible for strategic planning and identifying major areas of research. Incumbent serves as a liaison on intramural research programs with the media, special interest groups; high-ranking scientific and executive officials in other Public Health Service agencies, HHS, other Federal agencies, the academic and private sector, and with members or staff of the Congress.

For more information, contact Susan Haas at (301) 496-1443. The following forms are required: Application for Federal Employment (SF-171) accompanied by a current curriculum vitae and bibliography. These must be submitted to:

Susan Haas
National Institutes of Health
Staffing Management Branch
Building 31, Room 1C-35
9000 Rockville Pike
Bethesda, Maryland 20892

Applications must be received by November 29, 1991

All qualified candidates will receive consideration without regard to race, religion, color, sex, age, national origin, lawful political affiliation, marital status, or physical or mental disability.

NIH is an Equal Opportunity Employer

Molecular Biologists
Anticancer and Antibiotics
Drug Discovery

The Upjohn Laboratories Division of The Upjohn Company has two immediate openings for research scientists to join the following two departments:

Cancer & Infectious Diseases Research

(Position Code 910197-074)

Working with a team of cell biologists, biochemists, and pharmacologists, the successful candidate will conduct independent research on selected molecular targets relevant to the discovery of novel agents for cancer treatment. This scientist will employ molecular biological approaches to studies of the mechanism of action of anti-tumor drugs such as novel DNA-interactive compounds or agents that inhibit tumor angiogenesis. The incumbent is expected to play a significant role in the selection of future molecular oncology-related areas of research focus for the cancer program and will carry out high-quality work warranting publication in peer-reviewed journals.

In addition to a Ph.D. degree in molecular biology, cell biology, biochemistry or related field, 3-5 years of independent research experience in recombinant DNA technology applied to a molecular oncology related field of investigation, such as growth factors, oncogenes, cell-cycle regulation or tumor suppressor genes is essential.

Molecular Biology Research

(Position Code 910596-075)

Working with our Infectious Diseases Research Group, the successful candidate will conduct independent research on replication, translation or transcription to study the mechanism of action of antibiotics of interest to our anti-bacterial program. This scientist will play a key role in identifying, designing and implementing mechanistic screens for specifically targeted anti-bacterial agents. Additionally, this scientist will collaborate with other researchers to provide support to heterologous gene expression in E. coli. The incumbent is expected to carry out high-quality work warranting publication in peer-reviewed journals.

In addition to a Ph.D. degree in microbiology, biochemistry, molecular biology, or cell biology, a minimum of 2 years of postdoctoral training and 3-5 years of independent research experience is required. Strong background in prokaryote genetics and molecular biology with proficiency in techniques required for experimentation in these areas is essential.

Upjohn offers a competitive salary and benefits package in addition to a stimulating, multi-disciplinary research environment. In 1990, Upjohn committed over $400 million to research and development and we are currently increasing our research facilities by 50%. Qualified candidates are invited to send their curriculum vitae and cover letters to: THE UPJOHN COMPANY, CORP. RECRUITING, 7000 PORTAGE ROAD, KALAMAZOO, MI 49001, USA. Please refer to one of the above Position Codes in your correspondence. An Equal Opportunity Employer M/F.

Our Commitment to Scientific Excellence Continues...
UNIQUE CAREER CHANGE OPPORTUNITY
Ph.D. & Doctoral Professionals

T he College of Osteopathic Medicine and Surgery in Des Moines, Iowa, offers an accelerated three-year program leading to the Doctor of Osteopathy (D.O.) degree. Doctors of Osteopathy are fully licensed physicians who practice all aspects of medicine in every state.

Your doctoral degree in biological sciences or medical sciences qualifies you to be considered for admission to this accelerated program. The Graduate Professional Education Program (GPEP) features:

- Three years of didactic and clinical training.
- Significant reduction in total tuition and living costs compared to standard four-year medical programs.
- Financial assistance to qualified students.
- Self-paced learning through independent study.

For more information and an application contact:
Admissions Office, GPEP Program
University of Osteopathic Medicine and Health Sciences
3200 Grand Avenue
Des Moines, IA 50312-4198
(515) 271-1450 or 271-1614

UNIVERSITY OF PITTSBURGH

The Department of Environmental and Occupational Health, Graduate School of Public Health, University of Pittsburgh, is a newly established department charged with providing mechanistic information necessary for the identification, assessment and reduction of health risks resulting from environmental and occupational exposures. In order to fulfill this mandate, the Department seeks to recruit at the Assistant or Associate Professor level (tenure stream) an individual with expertise in radiation health (Board Certification "ABHP" desirable).

The successful candidate is expected to develop a funded research program, teach graduate levels courses in basic radiation physics and applied health physics, supervise research projects of masters and doctoral students, participate in departmental service and academic administrative functions. The position is available immediately and will be open until filled.

Applications should be submitted to:
Herbert S. Rosenkranz, Ph.D., Chairman, Department of Environmental and Occupational Health, Graduate School of Public Health, University of Pittsburgh, 130 DeSoto Street, Pittsburgh, PA 15261.

THE UNIVERSITY OF PITTSBURGH IS AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER.

POSITIONS OPEN

HARVARD UNIVERSITY
DEPARTMENT OF CHEMISTRY

ASSISTANT PROFESSOR OF ORGANIC CHEMISTRY

Applications are invited for an assistant professorship in any area of organic chemistry beginning in either the 1993/94 academic year or the 1992/93 academic year. Applicants should arrange to have three letters of recommendation sent independently and should provide curriculum vitae and a list of their future research plans. Harvard University is an Affirmative Action, Equal Opportunity Employer. Applications from women and minority group members are encouraged. Applications and supporting materials should be sent no later than January 1, 1991, to: Professor Stuart L. Schreiber, Department of Chemistry, Harvard University, 12 Oxford Street, Cambridge, MA 02138.

ECOLOGIST

The Department of Biology of the University of North Carolina at Chapel Hill is seeking an ASSISTANT PROFESSOR position for tenure-track appointment (in the field of toxicology) beginning July 1992 or later depending on applicant's availability. While all qualified individuals are encouraged to apply, special consideration will be given to candidates who have demonstrated excellence in research in population biology, evolutionary ecology, and/or physiological ecology. Send curriculum vitae, statement of research interests, and four letters of recommendation by December 15, 1991 to: Ecology Search Committee, Department of Biology, CCB 3280, Coker Hall, The University of North Carolina, Chapel Hill, NC 27514-3280. An Affirmative Action/Equal Opportunity Employer.

FRESHWATER BIOLOGIST

The expanding Program in Freshwater Biology at the University of Mississippi invites applications for a tenure- track (9-month) position to begin August 1992 (possibly January 1992). FISH GENETICS, ASSISTANT PROFESSOR. Duties include: conducting basic and applied research in fish genetics, using molecular techniques; developing an extramurally funded collaborative research program that incorporates use of the University of Mississippi Biological Field Station; participating in undergraduate and graduate teaching including a core genetics course, freshwater biology, population biology, specialty courses. Send curriculum vitae, three references, salary history, and a statement of research and teaching interests to: Dr. J. Coker Hill, Associate Professor, Department of Biology, University of Mississippi, University, MS 38677. The University of Mississippi is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

DEPARTMENT OF BIOLOGY
CASE WESTERN RESERVE UNIVERSITY

Tenure-track positions at the ASSISTANT PROFESSOR level are available in the areas of:

- Cell, molecular biology. Applicants will be considered with research interests in plant or animal systems.
- Population biology. Applicants should have a strong quantitative background, and will be considered with research interests in plant or animal systems.

Interested persons should submit curriculum vitae, statements of research interests, teaching experience and interests, and have three letters of recommendation sent to: Dr. Norman B. Kushforth, Chair, Department of Biology, Case Western Reserve University (CWRU), Cleveland, OH 44110. CWRU is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR: ENVIRONMENTAL SCIENCE IN PLANNING. Ecological systems research and teaching interests are expected, and environmental science findings pertinent to planning human settlements, effects on natural environments, development and evaluation of environmental policies; aquatic focus preferred. Education and experience sufficient to demonstrate scientific credentials and commitment to planning issues required, salary negotiable. Tenure-track position available Fall 1992. Joint appointment with an environmental science department likely. For full consideration send by 1 November 1991 curriculum vitae, two examples of your work (papers, course syllabi), and names, addresses, and telephone numbers of three references to: Search Committee, Department of Urban and Regional Planning, University of Illinois at Urbana-Champaign, 907 West Nevada, Urbana, IL 61801. Telephone: 217-244-5400.

Equal Opportunity Employer.

Applications are being accepted for a RESEARCH ASSISTANT PROFESSOR position at the Fidia-Georgetown Institute for the Neurosciences to conduct studies on the regulation of neurotrophic factors in cultured neural cells. Candidates must have a Ph.D. and at least 4 years of research experience in the molecular biology of inter leukins, including experience in DNA cloning, sequencing, and expression in mammalian cell systems. Additional skills are required in cell culture, intracellular signal transduction, antibody and enzyme immunoassay, at a salary of $30,000 per year. Send curriculum vitae by 25 October 1991 to: Director, FGIN, Georgetown University Medical Center, 3900 Reservoir Road, N.W., Washington, DC 20007.

EUKARYOTIC MOLECULAR BIOLOGY ASSOCIATE OR FULL PROFESSOR

The Department of Biology at the University of Michigan invites applications for a tenure-track position. We seek individuals who employ the techniques of molecular biology to investigate significant problems in plant or animal biology. The department has just completed a $13-million building renovation, and the new faculty member will be housed in a modern laboratory. Excellent facilities for molecular and genetic research are available in the department and on the adjacent medical school campus. In addition, the Matthaei Botanical Gardens, a unit of the department, provides facilities for study and growth of experimental plant material. The successful candidate will be expected to conduct an active research program and to participate in the graduate and undergraduate teaching programs of the department. Candidates will be contacted for an interview before references are sought, and all communications will be handled in strictest confidence. Application materials—curriculum vitae, statement of research plans, brief summary of teaching experience, a statement of current grant support and the names of four references—to: Dr. Wesley M. Brown, Department Chair and Chair, Bacteriolytic Molecular Biology Search Committee, Department of Biology, The University of Michigan Ann Arbor, MI 48109-1048.

Deadline for applications is 1 December 1991. The University of Michigan is an Affirmative Action/Equal Opportunity Employer.

SCIENCE, VOL. 254
POSITIONS OPEN

NEUROPATHOLOGIST

ASSISTANT PROFESSOR, TENURE-TRACK POSITION available as of 1 November 1991 with joint appointment at University Hospitals of Cleveland—Case Western Reserve University and Veterans Administration Medical Center. The position includes diagnostic teaching and research responsibilities. Board certification or eligibility in anatomic pathology and neuropathology is required; Ph.D. is preferable. Send curriculum vitae and names of three references to: Pierluigi Gambetti, M.D., Division of Neuropathology, Institute of Pathology, Case Western Reserve University, 2085 Adelbert Road, Cleveland, OH 44106. Both institutions are Equal Opportunity Employers.

PLANT MOLECULAR GENETICS
INDIANA UNIVERSITY, BLOOMINGTON

The Department of Biology is searching for an ASSISTANT PROFESSOR working in the area of plant genetics or molecular biology. Individuals active in any aspect of these fields are encouraged to apply. The successful candidate will be expected to conduct a vigorous, independent research program and contribute to teaching. Applicants should have postdoctoral experience and demonstrated ability as creative scientists. Send curriculum vitae and a brief description of research interests, and arrange to have three letters of reference sent to: Plant Molecular Genetics Search Committee, Department of Biology, Indiana University, Bloomington, IN 47405. Applications received before 1 December 1991 will be assured of consideration. Indiana University is an Affirmative Action/Equal Opportunity Employer.

Columbia University, Department of Psychology, anticipates making faculty appointments at the ASSISTANT PROFESSOR level in one or more of the following areas of specialization: developmental psychology, behavioral or cognitive neuroscience, social psychology, human cognition. For all positions, we seek recent Ph.D.’s who have demonstrated exceptional promise for excellence both as scholar-teachers and as researchers in the undergraduate and graduate levels. Applicants should submit their curriculum vitae and copies of recent publications, and have three letters of recommendation sent to: Personnel Search Committee, Department of Psychology, Schermerhorn Hall—Box 29, Columbia University, New York, NY 10027. The position for which application is being made should be indicated clearly. Applications from members of minorities and from women are encouraged. Columbia University is an Affirmative Action/Equal Opportunity Employer.

THE UNIVERSITY OF CALGARY
ASSISTANT PROFESSOR IN ZOOLOGY

The University of Calgary Department of Biological Sciences invites applications for an assistant professor in zoology effective 1 July 1992. Qualifications include a Ph.D. with postdoctoral experience, a commitment to excellence in teaching at the undergraduate and graduate levels, and a demonstrated ability to conduct productive research of high quality. Individuals specializing in vertebrate (preferably non-mammalian) endocrinology or a closely related field in physiology are especially encouraged to apply. The successful applicant will collaborate in the presentation of physiology courses at the senior undergraduate level, coordinate a senior undergraduate graduate course in endocrinology, and may participate in lower level zoology courses.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary has an Employment Equity Program and encourages applications from all qualified candidates, including women, aboriginal people, visible minorities and people with disabilities. The university offers a Dual Career Employment Assistance Program.

Applicants should send curriculum vitae, a concise outline of research directions and goals, and the names, addresses, and telephone number of three references before 31 December 1991 to:

Dr. R. W. Davies, Head
Department of Biological Sciences
The University of Calgary
2500 University Drive N.W.
Biological Sciences 186(B)
Calgary, Alberta, T2N 1N4 Canada
Facsimile: 403-289-9311

PROTEIN BIOCHEMISTRY:
STRUCTURE-FUNCTION STUDIES

DNA is an established leader in the emerging field of transgenic sciences, developing enhanced biological models and systems for use in drug discovery, chemical safety testing, transgenic pharmaceutical production, and livestock improvement. Career opportunities currently exist in our new research and development facilities in Princeton, New Jersey.

RESEARCH SCIENTIST

A Ph.D. level position is available for studies on the design of desirable properties in proteins of pharmaceutical interest expressed in transgenic animals. A background in molecular modeling, biophysical techniques, proteins purification or cross-linking is required. The successful candidate will have supervisory responsibilities and will interact with a team of molecular biologists and transgenic animal scientists dedicated to the discovery and development of pharmaceutical proteins using transgenic technology. 1-3 years post-doctoral experience, good publication record and excellent communication skills are essential.

RESEARCH ASSOCIATE

BS/MS with 1 or more years of experience in protein purification, structural studies or expression technology. Experience in transgenic animals is not essential.

DNA offers an excellent working environment and ideal location (midway between New York and Philadelphia), as well as competitive compensation and a superior benefits package. Individuals interested in a challenging opportunity at an exciting and rapidly growing company are invited to submit a curriculum vitae or resume and the names of three references to:

DNX Employment Manager
303B College Road East
Princeton, NJ 08540

Share Our Worldwide Commitment to Discovery

As one of the world’s leading pharmaceutical companies, Eli Lilly and Company has a vision for tomorrow: to enhance the discovery of pharmaceuticals and expand our knowledge of medical research to benefit people the world over. We’ve had a direct presence abroad for more than 70 years, and today our products are available in more than 110 countries.

Supported by a research budget in excess of $700 million, our 4,000 research scientists and technicians are pursuing a wide range of important research projects. We’re developing innovative therapies for cancer; cardiovascular, pulmonary and skeletal diseases; diabetes; CNS conditions, and bacterial and viral infections.

We are seeking qualified scientists for our discovery research division. Applicants should have a MS or BS with research experience in biochemistry, pharmacology, physiology, behavioral pharmacology, neuroscience, cell biology, pathology or molecular biology.

If you share our vision for the future and our commitment to scientific excellence, we invite your inquiry. For prompt consideration, please forward your resume to: Scientific Recruitment, Dept. S-1091, Eli Lilly and Company, Lilly Corporate Center, Indianapolis, IN 46285. An equal opportunity employer.

Lilly
ASSISTANT PROFESSOR
DEPARTMENT OF PHARMACOLOGY AND TOXICOLOGY
DARTMOUTH MEDICAL SCHOOL

Applications are invited from qualified individuals possessing a Ph.D. or M.D. degree and relevant postdoctoral experience to develop an independent research program in molecular pharmacology and toxicology. The position is in the Department of Pharmacology and Toxicology, Dartmouth Medical School, Hanover, NH 03755. Applications will be reviewed beginning 15 October 1991 and will continue until the position is filled. Women and minorities are urged to apply. Dartmouth College is an Equal Opportunity/Affirmative Action Employer.

Grinnell College invites applicants for a tenure-track position in biology to begin August 1992. ASSISTANT PROFESSOR preferred. ASSOCIATE PROFESSOR possible. We seek an animal physiologist, preferably one with a strong molecular/cellular/physiological approach to understand physiological phenomena. The appointee's duties will be to teach a course in animal physiology, an intermediate level course for molecular/cellular cell biology; and lecture-laboratory courses in introductory biology and/or general education courses. We seek candidates with a broad interest in biology who will conduct an active research program involving undergraduates. Start-up funds, excellent facilities, and modest continuing support for research are available. To be assured of consideration, send curriculum vitae, letters of recommendation, and all transcripts to: Lenore T. Durkee, Department of Biology, Grinnell College, Grinnell, IA 50112–8086 by 15 December 1991. Grinnell College is an Affirmative Action/Employer Opportunity and especially seeks women and minority candidates.

UNIVERSITY OF WISCONSIN–MILWAUKEE
DEPARTMENT OF CHEMISTRY

The Department of Chemistry of the University of Wisconsin–Milwaukee invites candidates to apply to both the position at the level of ASSISTANT or ASSOCIATE PROFESSOR in the area of biochemistry. Fields of research specialization may include metallo-biochemistry, chemical aspects of molecular biology or enzymology. Scientists in other areas of biochemistry are encouraged to apply. To apply, send curriculum vitae with a research plan and include letters of recommendation to: Professor C. Frank Shaw III, Chair, Department of Chemistry, University of Wisconsin–Milwaukee, P.O. Box 413, Milwaukee, WI 53201. Screening of applications will begin 1 November 1991. Applications will continue to be considered until 1 February 1992 if the position is not filled before this date.

The University of Wisconsin–Milwaukee is an Affirmative Action/Equal Opportunity Employer.

POSITIONS IN EXPERIMENTAL PSYCHOLOGY AT DUKE UNIVERSITY

Duke University is pleased to announce the formation of a new Department of Experimental Psychology. Research and teaching concentrations will be in human experimental, biological, developmental, cognitive, and computational approaches to the understanding of psychological issues. Interdisciplinary links are encouraged with other departments and schools in the university. Several faculty positions at both the assistant and associate professor level are available. Applications are now invited for two tenure-track positions in any of the above areas beginning in the fall 1992. Send letter of application, curriculum vitae, and references to: Assistant Professor. Duke University is an Affirmative Action/Equal Opportunity/Equal Access Employer.

COLUMBIA UNIVERSITY

The Department of Pharmacology invites applications for the position of ASSOCIATE PROFESSOR (both tenure track). Successful candidates are expected to establish an independent research program in the basic molecular and cellular mechanisms of neuropharmacology. Requirements include a Ph.D. and/or M.D. degree and a minimum of 2 years of postdoctoral experience. Preference will be given to individuals whose research focuses on cell signaling, neurodevelopment, behavioral neurobiology or neuropharmacology. Candidates are expected to submit a curriculum vitae, brief statement of research interests and future plans, and the names of at least three references by 15 November 1991 to: Dr. Stephen Slepian, Department of Pharmacology, Columbia University, 630 West 168th Street, New York, NY 10032.

Columbia University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION
MICROBIAL PATHOGENESIS

Applications are invited for a tenure-track appointment at the ASSISTANT or ASSOCIATE PROFESSOR level in the field of Microbiology and Molecular Genetics, UMD–New Jersey Medical School. Applicants should have a Ph.D. (or equivalent degree) and research interest in the pathogenesis of microbial diseases. Successful candidates will be expected to establish a strong basic research program that is molecular in approach and to participate in medical and graduate student education. The Department is located in a large medical complex, has excellent facilities, and a vigorous interactive faculty. There are extensive opportunities for collaboration both within and outside the department.

Send curriculum vitae, statement of research interests and names and addresses of three references to: Dr. Lynn S. Ripski, Faculty Search Committee, Department of Microbiology and Molecular Genetics (A), UMD–New Jersey Medical School, 185 South Orange Avenue, Newark, NJ 07103–2714.

UMDNJ is an Equal Opportunity Employer, M/F/H/V, and is a member of the University Health System of New Jersey.

INFECTIOUS DISEASES
FACULTY POSITION
IN BASIC AIDS RESEARCH OR RETROViroLOGY

The University of California, Los Angeles (UCLA), Division of Infectious Diseases, Department of Medicine, at the UCLA Health Science Center Westwood is recruiting a tenure-track faculty member at the ASSISTANT OR ASSOCIATE PROFESSOR level in molecular virology. The position includes an independent laboratory space and equipment, start-up funds, and protected time for research. The applicant must be Board-certified in internal medicine and Board-eligible or -certified in infectious diseases and have at least 3 years of basic research experience. The applicant will establish an independent research program in retrovirology or basic AIDS research. UCLA provides an excellent climate for an individual interested in AIDS research. UCLA has a state-supported AIDS clinical research center which can provide small grants and the state of California through the University of California AIDS Task Force supports AIDS research directly. Outside the Department of Medicine, there are groups working on the Department of Microbiology and Immunology, Neurology, Pediatrics, and the Molecular Biology Institute. For appropriate candidates there is also a possibility of an appointment in the Department of Microbiology and Immunology and this would provide access to the department's graduate program. Several AIDS-related NIH training grants are available to support postdoctoral fellows. Since the UCLA Medical School is located on the general campus, collaborations outside the Medical School can easily be established. Send letter of application to: Professor and Chair, Div. of Medicine, University of California, Los Angeles, UCLA School of Medicine, 10853 Le Conte Avenue, Los Angeles, CA 90024–1747. UCLA is an Affirmative Action/Equal Opportunity Employer.

The Department of Environmental Toxicology at the University of California, Davis, invites applications for an environmental toxicologist to join the Environmental Toxicology Program. The program is an interdisciplinary program which includes faculty in the College of Agriculture and Environmental Sciences. The position is expected to be filled in the early spring of 1992. The position carries a rank of assistant professor. The successful candidate will have a Ph.D. and postdoctoral experience. The appointee will be expected to establish an independent research program and to advise and supervise both graduate and undergraduate students. The candidate will also be expected to be an active participant in graduate student education. The successful candidate should be able to establish an independent research program and to advise and supervise both graduate and undergraduate students.

Send curriculum vitae and names of three references to: Dr. John H. Stoklosa, Chair, Committee on Toxicology Search, Department of Environmental Toxicology, University of California, Davis, CA 95616–8588. The position will remain open until a suitable candidate is found. Applications should be submitted by 15 October 1991. The University of California is an Equal Opportunity Employer.

The Department of Anatomical Sciences has two tenure-track positions available at the ASSISTANT/ASSOCIATE PROFESSOR level for appointment beginning 1 July 1992. Applicants are invited from the following areas: 1) a Ph.D. or M.D. degree and at least 2 years of postdoctoral training. Preference will be given to individuals whose research focuses on cell biology, developmental biology, molecular pharmacology, environmental biology or neurobiology. Each candidate is expected to establish an independent research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish an independent research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish a competitive research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish a competitive research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish a competitive research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish a competitive research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish a competitive research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish a competitive research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish a competitive research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish a competitive research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish a competitive research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish an independent research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish a competitive research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish a competitive research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish an independent research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish a competitive research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish a competitive research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish a competitive research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish a competitive research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish a competitive research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish an independent research program. Teaching responsibilities will be in either gross anatomy or histology. Research associates are expected to establish a competitive research program.

Send curriculum vitae and names of three references to: Dr. J. Padgette, Chair, Department of Anatomical Sciences, University of Kentucky, College of Medicine, Room 701 WMB, Emory University, Atlanta, GA 30322.

The University of California is an Equal Opportunity/Equal Access Employer.

ASSISTANT/ASSOCIATE/FULL PROFESSOR

The Department of Psychiatry at the University of California, Los Angeles, is seeking to fill a tenure-track research position at the level of assistant professor with an initial appointment to a position at the level of assistant professor. The position includes a salary of $30,000 per year, paid for three years. The individual will be expected to establish an independent research program. The position is open to individuals with research interests that complement ongoing neuroscience research. Send curriculum vitae, a description of current and anticipated research interests, and the names and addresses of three references to: Dr. J. Padgette, Department of Anatomical Sciences, University of California, Los Angeles, CA 90024–1747.
Research Opportunities
At The National Institute On Alcohol Abuse And Alcoholism/ADAMHA.

The National Institute on Alcohol Abuse and Alcoholism (NIAAA), located at the National Institutes of Health campus, offers an environment of unparalleled academic opportunity. Four positions are immediately available for Staff Fellows and Senior Staff Fellows with NIAAA:

Staff Fellow or Senior Staff Fellow position available now for animal behavioral geneticist to focus on the neurogenetics of serotonin function. The position is in the laboratory of Dr. David Goldman, Section on Genetic Studies, Laboratory of Clinical Studies. Salary range is $24,000 to $52,825, depending upon qualifications and experience. Applicants should have a PhD or MD and training in molecular biology, recombinant DNA technology, or neurobiology.

The Section of Analytical Chemistry, Laboratory of Clinical Studies, invites qualified individuals to apply for a fellowship for the study of Phospholipid Metabolism and Remodeling in neuronal tissues. The Section specializes in the study of polyunsaturated phospholipids in relation to their membrane function and metabolism. A unique opportunity exists for the successful applicant to participate in basic studies involving general elements of lipid biochemistry and clinical studies involving the biological basis of alcohol action in conjunction with our interdisciplinary group using mass spectrometry extensively. A background in either lipid biochemistry or biomedical mass spectrometry is appropriate for this position. Applicants should have less than three years postdoctoral experience.

Staff Fellow or Senior Staff Fellow position available now to investigate genetic variation and molecular mechanisms controlling expression of genes involved in serotonergic neurotransmission. The position is in the laboratory of Dr. David Goldman, Section on Genetic Studies, Laboratory of Clinical Science. Salary range is $24,000 to $52,825, depending upon qualifications and experience. Applicants should have a PhD or MD and training in molecular biology, recombinant DNA technology, or neurobiology.

The Section of Clinical Biochemistry and Pharmacology, Laboratory of Clinical Studies invites qualified individuals to apply for a fellowship to study the effects of ethanol withdrawal on drug-metabolizing enzymes. The Section focuses on the alteration of drug-metabolizing activity as the result of alcohol consumption. A unique opportunity exists for the successful applicant to participate in basic studies of enzyme activity and clinical studies involving altered pharmacokinetics of therapeutic agents. A background in biochemistry or pharmacology and experience with in vitro enzyme assays and/or HPLC is appropriate for this position. Applicants should have less than three years postdoctoral experience.

Each of these fellowship opportunities represents the chance to work side-by-side with some of the most cited physicians and scientists in the world, in one of the world's foremost biomedical research facilities. To apply for these positions, please send your CV, three letters of reference (or names of three references), and a one page description of relevant research interests to Mr. Michael Yuter, Personnel Management Branch, NIAAA, ADAMHA.

National Institute On Alcohol Abuse And Alcoholism
Alcohol, Drug Abuse, And Mental Health Administration
Building 31, Room 1B54, 9000 Rockville Pike, Bethesda, Maryland 20892
Equal Opportunity Employer
POSITIONS OPEN

FACULTY POSITION IN PHARMACOLOGY

Applications are invited for a tenure-track faculty position at the level of ASSISTANT PROFESSOR. Candidates should have at least 2 years of postdoctoral training in the area of drug metabolism emphasizing cellular and molecular mechanisms regulating cardiovascular function. In addition to performing high quality, independent research, candidates should participate in the teaching of professional and graduate students. The applicant should submit his/her curriculum vitae and a statement of research objectives by 1 December to: A. Tare, Chair, Search Committee, Department of Pharmacology, College of Pharmacy, University of Houston, Houston, TX 77204-5001. Houston is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITIONS IN CELL, MOLECULAR, AND STRUCTURAL BIOLOGY

Applications are invited for tenure-track positions in the Department of Cell, Molecular, and Structural Biology at Northwestern University Medical School. ASSISTANT PROFESSORS should have a Ph.D., M.D., or equivalent degree, with research experience in cell, molecular, or structural biology. Applicants will be screened with respect to their ability to carry on independent research and to participate in the various teaching programs administered by the department. Candidates whose research interests include cell biological, immunology, or structural biology are encouraged to apply, although outstanding applicants with research interests in other areas of molecular biology will be considered. Successful applicants will be expected to develop independent research programs. Significant start-up funds and start-up facilities are available.

Applications should include a full curriculum vitae and a brief description of research interests to: Dr. Robert D. Goldman, Chairman, Department of Cell, Molecular, and Structural Biology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611.

Northwestern University is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified individuals. Applications from women and minorities are especially sought.

PSYCHIATRIST-IN-CHIEF

CHILDREN'S HOSPITAL AND HEALTH CENTER (CHHC)

AND

DIRECTOR, DIVISION OF CHILD AND ADOLESCENT PSYCHIATRY

UNIVERSITY OF CALIFORNIA

SAN DIEGO (UCSD)

Candidates are being sought for the combined position of Psychiatrist-in-Chief, Children's Hospital and Health Center, and Director, Division of Child and Adolescent Psychiatry, University of California, San Diego. Applicants must have Board-certified or eligible in child psychiatry, California medical license, and have documented clinical, teaching, and research skills and experience (ten plus years) in child and adolescent psychiatry. Candidates must qualify for a tenured position at the ASSOCIATE or FULL PROFESSOR level at UCSD, which requires a very strong track record as an independent, clinical or basic science researcher. Preference will be given to candidates with proven skills and experience in clinical and educational program development and management in child and adolescent psychiatry. Salary will be at UCSD pay scale.

The opportunities and resources are present for an academic child psychiatrist with vision and leadership to build an outstanding scientific, academic and clinical division of child psychiatry which will serve as an integral component of the major tertiary care pediatrie hospital in the San Diego region.

Send curriculum vitae by 30 October 1991 to: Search Committee, A. Department of Psychiatry, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92037-0603. UCSD and CHHC are an Equal Employment Opportunity Employer.

BIOLOGY PROFESSOR

Full-time January 1992. M.S. degree with at least 18 graduate hours in biology from an accredited institution required. Base salary: $25,000 (30 semester hours/year). Send application and three letters of reference to: Collin County Community College District (CCCDC), Human Resources 2800 East Spring Creek Parkway, Plano, TX 75075. CCCDC does not discriminate on the basis of race, color, religion, sex, national origin, age, handicap or veteran status.

POSITIONS OPEN

JUNIOR/SENIOR FACULTY POSITION IN MACROMOLECULAR STRUCTURE

The Department of Biochemistry and Molecular Biology at Indiana University School of Medicine is seeking candidates for a full-time faculty position at the ASSISTANT, ASSOCIATE or FULL PROFESSOR level. Applicants should have a Ph.D., M.D. or equivalent degree and postdoctoral experience in a relevant area. The new faculty member will be expected to develop an independent research program. Significant start-up funds and start-up facilities are available. Applicants should submit their curriculum vitae, a description of research plans, and the names of three references. We are currently recruiting one person with broad interests in the determination of protein or nucleic acid structure, particularly by x-ray crystallography, NMR, or mass spectrometry. Individuals with such expertise are encouraged to apply to Dr. William F. Bosron at the address below:

Department of Biochemistry and Molecular Biology

Indiana University School of Medicine

Indianapolis, IN 46202-5122

Telephone: 317-274-7151

FAX: 317-274-4680

Indiana University is a coeducational, Equal Opportunity/Affirmative Action Employer, Employer and Contractor.

FACULTY POSITION IN MICROBIOLOGY AND IMMUNOLOGY

The Department of Microbiology and Immunology, University of Health Sciences/The Chicago Medical School, invites applications for tenure-track faculty position in the rank of ASSOCIATE OR FULL PROFESSOR. Applicants must have a Ph.D. and/or M.D. degree with solid training, research experiences, and interests in medical virology, molecular biology, and immunology. The successful candidate is expected to develop and maintain strong independent research in the field of molecular virology/immunology and to participate in teaching medical and graduate students. The department has established strength in the areas of molecular biology and immunology. The salary will be commensurate with qualifications and a negotiable starting date. The University of Health Sciences/The Chicago Medical School is an Equal Opportunity/Equal Employment Employer.

Cheryl C. Yoon, Ph.D.

Chair, Search Committee

Applications should include a full curriculum vitae and names of at least three references to: Cheryl C. Yoon, Ph.D., Chair, Search Committee, Department of Microbiology and Immunology, University of Health Sciences/The Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064. An Affirmative Action Employer.

CHAIRPERSON, BIOLOGICAL SCIENCE UNIVERSITY OF TULSA

Nominations and applications are invited for the position of Chairperson of the Faculty of Biological Science. The University of Tulsa is an independent, comprehensive institution of 5000 students. The Faculty of Biological Science is a 16-member department with 125 undergraduate majors and 15 students enrolled in the M.S. and Ph.D. programs. Research interests within the department encompass diverse areas of biology from molecular genetics to population ecology. We seek an individual with expertise in any biological specialty who will also be interested in leadership of undergraduate and graduate programs, including the hiring of additional faculty members. Candidates are expected to have an outstanding record of accomplishment in research, teaching, and graduate and/or undergraduate teaching experience. Prior administrative experience is desirable. Salary and startup funds will be competitive. The application package should include: a letter of interest, curriculum vitae, and names of at least three references to: Chair Screening Committee, Faculty of Biological Science, University of Tulsa, 7400 S. College, P.O. Box 75, Tulsa, OK 74104. The University of Tulsa is committed to diversifying its faculty and staff. Members of underrepresented groups (people of color, people with disabilities, women, veterans, etc.) are strongly encouraged to apply. The University of Tulsa is an Equal Opportunity/Affirmative Action Employer.

HEAD AND PROFESSOR OF PLANT PATHOLOGY

Department of Plant Pathology, Pennsylvania State University, University Park, Pennsylvania. Qualifications: Candidate should possess a Ph.D. in plant pathology or a closely related field; a significant period of postdoctoral research experience; and demonstrated research accomplishments in plant pathology, understanding of the Land-Grant University system; experience or in-depth knowledge of university research, teaching, and extension functions; and experience in or strong evidence of potential for administrative and leadership. Individuals wishing to apply for the position should send curriculum vitae, with names, addresses, and telephone numbers, to: Dr. Donald D. Davis, Chair, Search Committee, Department of Plant Pathology, 210 Buckhout Laboratory, Pennsylvania State University, University Park, PA 16802-4507. Applications for this position will be accepted until 15 December 1991, or until a suitable applicant has been selected. For more information, contact the preceding address. An Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

CANCER RESEARCH CENTER

UNIVERSITY OF HAWAII

MOLECULAR ONCOLOGY PROGRAM DIRECTOR

RESEARCHER AND PROFESSOR, tenure-track, position #89596. Senior cell and molecular scientist with an outstanding record of accomplishments including supervision of independent research laboratory and direct generation of research funding. Molecular biologist, biochemist or immunologist with cancer-oriented research program. Applicant's research interests should coordinate with current program focus on cell transformation and regulation of cell growth. Research interests including potential postdoctoral research. Established investigators in the center's established epidemiology program and its developing clinical and community outreach program would be especially desirable. Salary would be expected to establish a research laboratory in the center's modern research facility and serve as administrative leader of the center's Molecular Oncology Program. Salary will be commensurate with experience and accomplishments. To apply send complete curriculum vitae and names of four references to: Dr. Tom Humphreys, Chairman, Molecular Oncology Program Director, Search Committee, Cancer Research Center, University of Hawaii, 1236 Lauhala Street, Honolulu, HI 96813. Applications will be accepted on a rolling basis. The position will be open until December 31, 1991. An Equal Employment Opportunity/Affirmative Action Employer.

CHAIR

DEPARTMENT OF APPLIED SCIENCE

UNIVERSITY OF CALIFORNIA, DAVIS

Applications are invited for the position of Chair, Department of Applied Science, College of Engineering. The position is an appointment with the University of California, Davis, to administer the department which has branches on the main campus and on a site adjacent to Lawrence Livermore National Laboratory. The Department of Applied Science offers a graduate program in broad aspects of applied science leading to degrees of Master of Science and Doctor of Philosophy. The program is strongly focused in the physical and chemical sciences but also involves computational sciences and nearly all other aspects of applied science. Many faculty and students of the department have access to the unique facilities of the Office of Naval Research and Lawrence Livermore National Laboratory where a variety of research programs are sponsored. Other research activities have strong extramural support. The chair must be qualified for the rank of professor in an area of applied science. A strong sense of intellectual leadership, broad academic experience including excellence in research and teaching, commitment to graduate student education, and management and organizational skills are necessary.

Applications should be submitted to: Professor Richard Christensen, Chair, Search Committee, Department of Applied Science, University of California, Davis, P.O. Box 8848, Davis, CA 95616. Applications must be received by 12 November 1991. An Equal Employment Opportunity/Affirmative Action Employer.
Applications are invited for a tenure-track faculty position at the Assistant Professor or non-tenured Associate Professor level. Candidates should have doctoral education in microbiology, biology, biochemistry, chemistry, or toxicology. Research interests should encompass molecular pathogenesis of infectious diseases; focus on molecular and genetic aspects of microbial pathophysiology and carcinogenesis is desirable, e.g., relationships between microbial infections and chemical exposures in carcinogenesis. Areas of research experience and interests should be appropriate to facilitate interactions with other components of current programs, the goals of which are to elucidate at cellular and molecular levels mechanisms through which chemicals and physical agents in the environment induce pathogenesis in humans as well as experimental systems, with the objective of elucidating origins of genetically-linked diseases. Responsibilities of the position include conduct of an active independent research program and participation in the teaching program of the Division.

Applications should send a curriculum vitae, summary of proposed research, and arrange to have letters sent from three scientists who can provide an evaluation of qualifications of the candidate with respect to previous accomplishments as well as potential for research and teaching. Applications should be sent to:

Gerald N. Wogan
Chairman, Toxicology Search Committee
Division of Toxicology
Room 16-333
Massachusetts Institute of Technology
Cambridge, MA 02139

—MIT is an Equal Opportunity/ Affirmative Action Employer—

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**ASSISTANT OR ASSOCIATE PROFESSOR INDUSTRIAL HYGIENE**

University of Pittsburgh

The Department of Environmental and Occupational Health, Graduate School of Public Health, University of Pittsburgh, is a newly established department charged with providing mechanistic information necessary for the identification, assessment and reduction of health risks resulting from environmental and occupational exposures. In order to fulfill this mandate, the Department seeks to recruit at the Assistant or Associate Professor level an individual with expertise in Industrial Hygiene.

The successful candidate is expected to develop and manage graduate teaching programs at the graduate level, Industrial Hygiene professional level, and of physicians in the Occupational Medicine graduate program, and other graduate students in the School and research programs in those fields intrinsic to Industrial Hygiene, as well as provide support (e.g., Exposure Assessment) to other research programs. Responsibilities will include actively integrating ongoing and future teaching and research activities with other faculty, with particular e.g., in molecular toxicology, individual and population based risk assessment, epidemiology, etc. Provide professional Industrial Hygiene consultation and advice necessitated by health protection needs extant in the general industrial community in addition to those of a large University Health Center.

The position is available immediately with a closing date for applications of November 30, 1991. Salary commensurate with experience. Candidates with two or more years of post-doctoral experience and outstanding records of productivity are encouraged to submit a curriculum vitae, statement of interest and the names of at least three references to: Bertram D. Dinman, M.D., Search Committee Chair, Department of Environmental and Occupational Health, Graduate School of Public Health, University of Pittsburgh, 130 DeSoto Street, Pittsburgh, PA 15261.

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**POSITIONS OPEN**

**DIRECTOR**

INSTITUTE FOR BIOMEDICAL COMPUTING
WASHINGTON UNIVERSITY

- The institute is an academic unit attached to both the School of Medicine and the School of Engineering and Applied Science. It is composed of several laboratories and groups (Biomedical Computer Laboratory, Center for Molecular Biophysics and Sensory Sciences, and Sensory Biophysics Laboratory) which carry out broad interdisciplinary research programs in biomedical computing, quantitative imaging, bioengineering, biophysics, medical informatics, and computational chemistry. Close collaborative interactions are with faculty of schools of medicine and engineering, research professionals, and the Washington University libraries. Graduate training and ties with biomedical engineering are especially important.

The director works with the leaders of the institute components and with a Governing Board (prominent faculty and administrators from both schools) to maintain a stimulating environment for the institute's research programs. In addition to carrying out a personal research agenda, the institute director is responsible for coordinating research programs, developing new research directions, overseeing program budget and budget targets, and coordinating institute programs with other research and teaching programs at both schools.

Qualifications include an M.S. and/or Ph.D. in bioinformatics, and/or a Ph.D. in an engineering discipline, at least 5 years of significant research and administrative experience, demonstrated leadership abilities, and excellence in intellectual performance. Applicants should submit a resume, a publication list, and at least three references to: Dr. James McKevey, Department of Computer Science, 110 Baker Laboratory, Washington University, One Brookings Drive, St. Louis, MO 63130. Washington University is an Affirmative Action/Equal Opportunity Employer.

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**DIRECTOR**

STORED-PRODUCTS INSECTS RESEARCH AND DEVELOPMENT LABORATORY
SAVANNAH, GEORGIA

- The USDA Agricultural Research Service is seeking an entomologist with knowledge of stored-product entomology to lead and direct a research team, conduct personal research, and manage the fiscal and other resources of the laboratory. The mission of the laboratory is to develop new knowledge and technology to prevent or reduce insect damage and contamination of agricultural products after harvest through storage, transport, and processing to consumption. The position is to be filled as a permanent position. Applicants should contact Ms. Libby Williams, USDA, ARS, Personnel Division, 6305 Ivy Lane, Room 343, Greenbelt, MD 20770–1435. Telephone: 301–444–1927.

Equal Opportunity Employer.

**ASSISTANT DIRECTOR FOR MEMBERSHIP DEVELOPMENT**

The University of Texas Health Science Center at San Antonio (UTHSCSA) has a position available for an Assistant Director for Membership Development, Industry-University Research Center (ICURC). Candidates should have an M.S. or Ph.D. in a scientific discipline, or possess equivalent practical experience. Extensive business in a setting related to pharmaceutical, biotechnology industries, and strong interpersonal skills are necessary for this position. Responsibilities include identifying strategic research capabilities at UTHSCSA and related industry interests; marketing UTHSCSA research to appropriate industries; and developing and maintaining ICURC industry membership. Experience with development of UTHSCSA intellectual property is necessary. Please refer to NC-001 when submitting résumé and letter of interest.

Directed Office of Human Resources
The University of Texas
Health Science Center at San Antonio
7703 Floyd Curl Drive
San Antonio, TX 78284-7972
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**LABORATORY MANAGER**

Scientific and administrative matters connected to research on purification of monoclonal antibodies for therapeutic use according to GMP and related FDA guidelines. Requires Ph.D. in chemistry plus 2 years in job offered or 2 years as a research fellow and pharmaceutical production/quality control manager. Experience must include substantial work with monoclonal antibodies; experience managing laboratory and production facilities. Salary: $39,000 per year; 9:00 a.m. to 5:00 p.m., 40 hours per week, Monday through Friday (37 and 1/2-hour work week). Send résumé to Kathy Asmussen, ICURC, 6130 Fitzhugh Parkway, Dallas, TX 75232. Equal Opportunity/Affirmative Action Employer.

**POSITIONS OPEN**

**DIRECTOR**

PROGRAM DIRECTOR

NAZIACF REALIZATION INITIATIVE COMPETITIVE GRANTS PROGRAM

**DEPARTMENT OF AGRICULTURE (USDA)**

The National Research Initiative Competitive Grants Program, U.S. Department of Agriculture, seeks a qualified scientist to serve as a program director for grant review and administration in the area of animal disease research. Candidates must have a D.V.M., Ph.D. or other degree with major study in microbiology, veterinary science or a related discipline of biological science. Information on how to apply is available from the Director. Closing date is 4 November 1991. For further information on this permanent position, contact Dr. Roseline M. Good, in the Office of Biotechnology, 1223G Aerospace Building, 901 D Street, S.W., Washington, DC 20250–2200. Telephone: 202–401–6234. For information on application procedures/forms, contact Ms. Kathy Asmussen, Personnel Specialist, telephone: 202–475–4811. USDA is an Equal Opportunity Employer.

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**CELL AND MOLECULAR BIOLOGY**

**NEUROSCIENCE**

The Department of Anatomy at the University of Nebraska Medical Center invites applications for two TENURE-LEADING, FULL-TIME FACULTY POSITIONS. Candidates must have qualifications and experience. Individuals with interests in, but not limited to, cell and molecular biology or neurosciences are sought. Teaching responsibilities will include participation in an integrated program of medical students and specialized courses for graduate students in the basic medical sciences. A vigorous research program and record of extramural funding are expected. Salary and research incentives are highly competitive. The University of Nebraska Medical Center is a dynamic and expanding facility that ranks high in national measurements of faculty productivity and academic atmosphere. The Omaha metropolitan statistical area includes about 700,000 residents, and usually ranks among the top ten U.S. cities for indices of the quality of urban life. Send curriculum vitae and the names of three references to: Dr. David Crouse, Vice-Chairman, Department of Anatomy, University of Nebraska Medical Center, 600 South 42nd Street, Omaha, NE 68192–6395.

The University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer; minorities and women are encouraged to apply.

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**FACULTY POSITION—BIOLOGIST**

Ph.D. King College, a Christian 4-year liberal arts college in the Presbyterian tradition, is seeking a full-time, permanent position beginning fall 1992. Teaching responsibilities include molecular genetics, microbiology, and introduce- to-undergraduate biology. Interested candidates should contact Dr. Gregory D. Jordan, Dean of the Faculty, King College, 1300 King College Road, Bristol, TN 37620–2699.
Technicon Instruments Corporation, a leading manufacturer of automated clinical laboratory instruments, is expanding its Immunomethod R&D Department.

A variety of openings exist, ranging from Technologists to Scientists, at all degree levels.

Our interest focuses on the development of new immunochemical reagents and corresponding automated immunoassays. We are seeking candidates with strong educational background in analytical and protein biochemistry, immunochemistry and bio-organic chemistry. Background in infectious diseases testing will be helpful.

Areas of interest include assays for hormones, tumor markers, infectious diseases, anemia, and drugs. Tasks phases comprise feasibility R&D, preparation/modification of immunological reagents, their formulation, performance optimization and commercialization. Industrial experience is desirable.

Our organization offers an environment conducive to professional growth, as well as an excellent compensation and benefits program. Please send c.v. and/or resume in confidence to:

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**FACULTY POSITION.** Department of Microbiology and Immunology, the University of California, San Francisco, School of Medicine, is seeking an outstanding candidate to fill a tenure-track position. In addition to departmental affiliation the position includes membership in the Program in Biological Sciences, the excellent campus-wide graduate program. The search will consider individuals who demonstrate creativity and productivity in one of the following two areas: (1) molecular mechanisms of basic processes in prokaryotes or (2) molecular mechanisms of bacterial pathogenesis. Rank will be commensurate with level of experience. Interested candidates should send curriculum vitae and a statement of research plans, and three letters of recommendation to: Dr. Ronald Biörk, University of California, c/o Dr. Mary Jo Kelley, Department of Microbiology and Immunology, Box 8056, University of California, San Francisco, (UCSF), San Francisco, CA 94143. UCSF is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

**INSTRUCTOR POSITIONS**

Two instructor positions are available immediately in the research area of cellular and molecular characterization of hematopoietic or tumor cells. The main areas of concentration will be in leukemia and lymphoma. The successful applicants will be expected to direct research in this area in collaboration with the other members of our group, write grants, and participate in obtaining grant funding. It is essential that applicants have a strong background in PCR, DNA and RNA in situ hybridization, design of oligo-probes and phenotyping. It is also desirable to have experience in experimental animal models and general experience in immunology development for diagnostic purposes. Send curriculum vitae and two letters of recommendation to: Dr. Karel Dicke, Oncology/Hematology, University of Nebraska Medical Center, 600 South 42nd Street, Omaha, NE 68198-1210. An Equal Opportunity/Affirmative Action Employer.

**FACULTY POSITION**

**MOLECULAR APPROACHES TO BIOLOGICAL TIMING**

**TENURE-TRACK POSITIONS** are now available in a newly established NSF Science and Technology Center for Biological Timing. The center seeks individuals with research interests in the generation and control of endocrine, neural and circadian rhythms. Investigators will hold positions in the Department of Medicine or in the Department of Biology. Interested candidates should send curriculum vitae, statement of research interests and three letters of reference by 30 November 1991 to: Search Committee for Biological Timing, Center for Biological Timing, University of Virginia, Charlottesville, VA 22901

The University of Virginia is an Affirmative/Equal Opportunity Employer.

**NASA SPACE LIFE SCIENCES TRAINING PROGRAM**

**GRADUATE STUDENT LEVEL TEMPORARY POSITIONS**

Applications are being accepted for four temporary staff positions (January through August 1992) at the Kennedy Space Center supporting design, development and implementation of laboratory research projects. Projects will include: NASA LDEF, interplanetary, summer, educational curriculum for 48 undergraduates (including 18 international students). Positions will provide unique on-the-job experience in space life science operations and research while under supervision of resident and visiting scientists and engineers. Graduate study in related fields and research experience in general biology, human physiology (cardiovascular, muscle or exercise), plant physiology, embryology, microbiology, biochemistry or a combination of the above are especially encouraged for application. For more information contact: Dr. Ronald Biörk at 407-867-2521. Submit letter of interest, curriculum vitae and three letters of recommendation to: Search Committee, Mail Code B10-1, Kennedy Space Center, FL 32899. Equal Opportunity Employer, M/F/V/H.

**ORAL PATHOLOGY**

Oregon TRENURE-TRACK FACULTY POSITION available in the Department of Oral Pathology, Oregon Health Sciences University, School of Dentistry. Duties include teaching general pathology as the course coordinator, service activities (biopsy and oral medicine) and administrative responsibilities. Rank will be commensurate with level of training. Experience in oral pathology is essential. Applicants should have a PhD, MD, or DMD and demonstrate excellence in teaching, research and clinical practices. Salary will be commensurate with qualifications. Application must be submitted by 15 January 1992. Applications should include curriculum vitae, statement of research and teaching interests, and names of three references to: Dr. Bruce J. Holloway, Director of Ornithology, Oregon Health Sciences University, 311 Southwest Sixth Avenue, Portland, OR 97201. Oregon Health Sciences University is an Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS**

Available immediately for studies of mechanisms of enzymatic catalysis involving, but not limited. Experience in interest and intrinsic and steady-state kinetics is desirable. Send curriculum vitae to: Dr. Harvey P. Ascher, University of California, 3455 Medical Center, 4801 Linwood Boulevard, Kansas City, MO 64128; telephone: 816-861-4700, extension 3455. An Equal Opportunity/Affirmative Action Employer.

**POSITIONS OPEN**

**INVERTEBRATE BIOMECHANICS**

The Department of Environmental, Population, and Organismic Biology is inviting applications for a TENURE-TRACK FACULTY POSITION in invertebrate biomechanics. Preference will be given to candidates at the level of assistant professor. Rank and salary will be commensurate with experience. Research interests may include any aspect of biomechanics or functional morphology. Development of strong research and teaching programs in invertebrate biomechanics is expected. Experience in teaching and research on physiological component consistent with the broad themes of this department will be required. To apply, send curriculum vitae, statement of research interests, and the names and addresses of four references to: Dr. Steven C. Hand, Search Committee Chair, Department of EPO Biology, University of Colorado, Boulder, CO 80309-0334. Applications should be postmarked no later than 15 November 1991. The University of Colorado at Boulder has a strong institutional commitment to the principle of diversity in all areas. In that spirit, we are particularly interested in receiving applications from a broad spectrum of people, including women, members of ethnic minorities and disabled individuals.

**POSTDOCTORAL POSITIONS**

**EXPERIMENTAL HEMATOLOGY**

Position is available to study genetic regulation of hematopoiesis and immune responses in embryonic chimeric mice and in mice engineered intraplacentally as fetuses. Experience with embryology and viral marking is desirable. Extensive use of flow cytometry is made in preparation of grafts and analysis of engraftment. Salary open. Please send curriculum vitae, a summary of your research experience and names of three references to: Dr. Gary Van Zant, Department of Cell Biology and Anatomy, Texas Tech University Health Sciences Center, Lubbock, TX 79430. Equal Employment Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITIONS**

**IN MOLECULAR NEUROBIOLOGY**

**UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL**

Two postdoctoral positions will be available in the spring of 1992 to study (1) the function and regulation of submembrane proteins involved in clustering of nicotinic acetylcholine receptors and postsynaptic membrane structure, or (2) expression and localization of presynaptic calcium channels during neuronal synapsogenesis. Experience in cellular biology and/or membrane biochemistry is desirable. For more information, send curriculum vitae and the names of three references to: Dr. Robert P. Friede, Department of Biochemistry, Dartmouth Medical School, Hanover, NH 03756. Telephone: 603-646-3179. Fax: 603-646-9326. Send applications to: Dr. Richard A. McComb, Department of Pharmacology, Yale University School of Medicine, 310 Cedar Street, 424 FMB, Box 3333, New Haven, CT 06510. Yale University is an Equal Opportunity Employer.

**YELE UNIVERSITY**

**SCHOOL OF MEDICINE**

**POSTDOCTORAL POSITIONS**

**IN IMMUNOBIOLOGY**

Postdoctoral positions are available in the Section of Immunobiology to study the role of specific genes believed to be involved in immune function utilizing homologous recombination and embryonic stem cell technology. Experience in molecular biology and cell culture should send curriculum vitae and three letters of recommendation to: Dr. Richard A. McComb, Department of Pharmacology, Yale University School of Medicine, 310 Cedar Street, 424 FMB, Box 3333, New Haven, CT 06510. Yale University is an Equal Opportunity Employer.

**POSTDOCTORAL POSITION**

Available to study isoforms of human alkaline dehydrogenase, cellular and subcellular distribution, and/ or enzymology. Experience in cell biology and/or enzymology or in cDNA cloning are encouraged to apply. Salary commensurate with experience.

For further information send curriculum vitae and three letters of reference to: Dr. Regina Pietruszko, Center of Alcohol Studies, Rutgers University, Busch Campus, Piscataway, NJ 08854-9699. Equal Opportunity/Affirmative Action Employer.
**1992 PROGRAMS OF THE CENTER FOR BIOLOGICAL TIMING**

**A National Science Foundation Science and Technology Center**

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**UNIVERSITY OF VIRGINIA**  
**NORTHEASTERN UNIVERSITY**  
**ROCKEFELLER UNIVERSITY**

The Center for Biological Timing (CBT) combines the investigative efforts from the University of Virginia, Northwestern University and Rockefeller University to increase our knowledge of biological timing.

**Annual Research Symposium, January 18, 1992**
- Focus on molecular basis of biological timing
- Open to faculty, students and postdoctoral researchers
- Registration required

**Industrial Symposium, February 9-10, 1992**
- Lectures on relevance of biological timing to shift work, pharmaceuticals, transportation, agriculture and health-care industries
- Round table discussions among industrial, governmental and Center investigators
- Held at Center for Innovative Technology, near Dulles International Airport
- Registration required

**Biological Rhythms Course, July 15–August 14, 1992**
- Quantitative and topological analysis of biological oscillations
- Molecular, cellular and systems-level properties in biological timekeeping
- Open to undergraduates, graduates and postdoctoral researchers

The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

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**SEARCH EXTENDED! TUFTS UNIVERSITY DIRECTOR OF THE DUDLEY WRIGHT SCIENCE EDUCATION PROGRAM**

Tufts University is seeking applicants for Director of the Dudley Wright Program for Innovation in Science Education to start September, 1992. The Director will oversee the development of a program dedicated to the improvement of teaching of science and mathematics to young people and will also teach and mentor Tufts graduate students pursuing a career in science education. The position can be a joint faculty position in the Education Department, tenure track or not, depending on the qualifications and desires of the successful candidate. The faculty rank would be commensurate with the applicant’s teaching and research experience.

The Director will be guided by internal and external advisory councils and will be charged with establishing and guiding science teacher workshops, with the selection of Wright Fellows, with the administration of all aspects of the Wright Center, and with coordinating all science education programs in the University. In the future, the Director will be expected to expand the Program to all levels of education, preschool through college as well as to other sectors of society where the learning and re-learning of science and mathematics are important.

The position requires a person with a significant recognized record of publication in science or mathematics education. Some preference will be given to persons whose original career trajectory was in the natural sciences or mathematics and who have an earned doctoral degree in one of those fields. Send curriculum vitae and the names of three references to Dean Robert P. Guertin, Graduate School of Arts and Sciences, 120 Packard Avenue, Tufts University, Medford, MA 02155. Deadline for receipt of application letter is December 1, 1991.

Tufts University is an equal opportunity/affirmative action employer and urges minorities and women to apply.
POSTDOCTORAL POSITION

POSTDOCTORAL POSITION DEVELOPMENTAL BIOLOGY

Applications are invited for a postdoctoral scientist to work as an ASSOCIATE on a Drosophila neurobiology project in the Institute for Molecular Genetics at Baylor College of Medicine. Research projects will involve studying essential genes that have been identified with P-element-mediated enhancer detection [BioEssay 12, 199 (1990) and G & D 3, 1288 and 1301 (1989)] and that are expressed in the peripheral and central nervous system of embryos or larvae. Candidates should possess a Ph.D. in molecular biology, genetics, or biochemistry. Please forward your curriculum vitae and three letters of recommendation to: Dr. Hugo Bellen, Institute for Molecular Genetics, One Baylor Plaza, Baylor College of Medicine, Houston, TX 77030. An Equal Opportunity Employer.

POSTDOCTORAL POSITION

(1) Molecular cloning of opioid receptor genes, using expression cloning, PCR and receptor isolation. (2) Mutational analysis of muscarinic cholinergic receptors; structure and function of G protein-coupled receptors. Background in recombinant DNA technology, protein isolation, and/or neurobiology (G protein-coupled receptors). Supported by NIDA and NIGMS; available immediately. Résumé and names of three references to: Dr. W. Sadée, School of Pharmacy, University of California, San Francisco (UCSF), CA 94143. Telephone: 415-476-1947. UCSF is an Equal Opportunity Employer.

POSTDOCTORAL POSITION

To develop amplification detection methods for multiplex determination of trypanosome and other blood-borne viral and parasitic diseases important to developing countries and adapt detection methodologies to clinical analysis. Experience with techniques of molecular biology desirable. Send curriculum vitae and letters of reference to: Dr. Larry Simpson, Department of Biology, University of California, Los Angeles, 405 Hilgard Avenue, Los Angeles, CA 90024. Telephone: 213-825-4215. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

POSTDOCTORAL POSITION IN MOLECULAR AND CELLULAR NEUROBIOLOGY. A position is available to study the molecular and cellular biology of mammalian brain potassium channels (KCs). Research in the laboratory involves using multidisciplinary approaches to determine which domains of KCs are required for the proper distribution, maintenance, and function of these channels in membranes. Experience in the techniques of molecular biology and biochemistry is preferred, but other applicants will also be considered. Send curriculum vitae and the names and telephone numbers of three references to: Dr. William B. Thorhill, Department of Physiology and Biophysics, Box 1218, The MOUNT SINAI MEDICAL CENTER, One Gustave L. Levy Place, New York, NY 10029-6574. An Equal Opportunity Employer.

POSTDOCTORAL POSITION

POSTDOCTORAL POSITION available immediately to study translocations and suppressor genes involved in human leukemias. Experience in molecular biology required. Send curriculum vitae and telephone numbers of two or three references to: Dr. Eli Cattanach, Cancer Center and Department of Microbiology, Thomas Jefferson University, Blumen Building, 233 South 10th Street, Philadelphia, PA 19107. We are committed to a smoke-free environment. Equal Opportunity Employer.

POSTDOCTORAL POSITION

Available starting January 1992 at the California Parkinson’s Foundation. Applicants must have experience with tissue cultures and/or molecular biology techniques related to DNA/RNA analysis, including PCR, sequencing, Southern and Northern blotting. Research projects are aimed at investigating the mechanisms of action of neurotoxins and elucidating the molecular basis of neurodegenerative processes. Interested applicants are invited to send their curriculum vitae and names of three references to: Dr. Donato Di Monte, California Parkinson’s Foundation, 2444 Moorpark Avenue, Suite 316, San Jose, CA 95128.

POSTDOCTORAL POSITION

POSTDOCTORAL POSITION, DEPARTMENT OF MEDICINE, Harvard Medical School. Opening available for postdoctoral fellow with strong background in molecular biology and/or molecular immunology to study the transcriptional regulation of gene expression. Funding available for U.S. citizens or permanent residents. Send curriculum vitae, three letters of recommendation and a statement of research interest to: Dr. Patricia Finn, Enders Research Building, Room 126, 320 Longwood Avenue, Boston, MA 02115. FAX: 617-730-0422.

POSTDOCTORAL POSITION


POSTDOCTORAL POSITION

Available to study the role of multiple protein kinases and protein phosphorylation in neutrophil activation. Experience in biochemistry, cell biology, or molecular biology is required. Please send curriculum vitae and names of three references to: Dr. Chi-Kuang Huang, Department of Pathology, University of Connecticut Health Center, Farmington, CT 06030.

POSTDOCTORAL POSITION

Available immediately for a molecular biologist to develop novel approaches to large scale DNA cloning and sequencing. An interdisciplinary research environment combining chemistry, biochemistry, instrumentation, and molecular biology supports the development of new technologies for gene analysis. Interested candidates should send curriculum vitae and two letters of reference to: Dr. David Mead and Dr. Lloyd Smith, Department of Chemistry, 1101 University Avenue, University of Wisconsin, Madison, WI 53706. An Equal Opportunity Employer. Women and minorities are encouraged to apply.
RESEARCH SCIENTISTS

Bristol-Myers Squibb Pharmaceutical Research Institute, a world leader in the pharmaceutical industry, has challenging opportunities for Research Scientists in the Molecular Biology Department.

TISSUE CULTURE - Work on the role of neurotrophin receptors via the growth and survival of neurons and their involvement in neurodegenerative diseases. Extensive experience in basic tissue culture techniques is necessary. Additional experience in neuronal cell cultures is preferred. Reply to Dept. # 247A - BM.

MOLECULAR BIOLOGY - Hands-on experience in cloning and expression of genes in bacterial as well as in mammalian cells is necessary along with familiarity with basic molecular procedures such as subcloning, nucleotide sequencing, PCR and expression vectors. Additional experience in basic protein purification techniques will be considered an asset. Reply to Dept. # 247B - BM.

GENE TARGETING - Responsibilities include maintenance and cultivation of mouse embryonic stem cells, electroporation and cloning. Experience in embryonic stem cell technology and other cell culture techniques is necessary. Previous training in DNA recombinant techniques is also desired but not essential. Reply to Dept. # 247C - BM.

BACULOVIRUS EXPRESSION - Experience in using Baculovirus expression vector systems for the expression of large quantities of mammalian proteins is necessary. Responsibilities include cultivation, freezing and storage of insect cells, cloning genes into AcMNPU transfer vectors, transfection of SF9 cells and isolation of recombinant viruses. Additional experience in purification of proteins by HPLC and other chromatographic methods preferred. Reply to Dept. # 247D - BM.

FLOW CYTOMETRY - The qualified candidate will be a flow cytometry "specialist" and head the departmental flow cytometry facility. The facility is equipped with Coulter Epics and Coulter Profile flow cytometers. Experience in flow systems and familiarity with computers are necessary. Reply to Dept. # 247E - BM.

Candidates should possess a BS or MS degree in a relevant discipline along with several years of experience.

Please forward your resume (including Dept. #) to: Bristol-Myers Squibb Pharmaceutical Research Institute, Human Resources Department, P.O. Box 4000, Princeton, NJ 08543. Equal Opportunity Employer, M/F/HV.
POSTDOCTORAL POSITION. MOLECULAR BIOLOGY OF INTERLEUKIN-1. The successful candidate will have the opportunity to engage in molecular studies on the regulation of IL-1 synthesis or mechanism of action. An NIH training grant is available to support this work. Send curriculum vitae and names of three references to: Dr. Steven B. Mize1, Department of Microbiology and Immunology, Bowman Gray School of Medicine of Wake Forest University, Medical Center Boulevard, Winston-Salem, NC 27157-1064. Wake Forest University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

Available January 1992 or later to study the electronophysics and structure of a variety of systems. Experience in later analysis and characterization of single cell isolation and patch/voltage clamp recordings. Send curriculum vitae and names of two references to: Stephen L. Lippin, Ph.D., Department of Physiology, Loyola University Medical Center, Maywood, IL 60153.

POSTDOCTORAL POSITIONS. Available for investigating the cellular and molecular biology of dopamine receptors and signal transduction. Research involves studies on molecular and cellular mechanisms of human intestinal peptide receptor. Submit curriculum vitae and names of three references to: Dr. Michelle B. Cohen, Division of Pediatric Gastroenterology, Children's Hospital Medical Center, 3250 E. 9th Street, Cincinnati, OH 45229. Telephone: 513-636-4415.

Ph.D./POSTDOCTORAL FELLOW. Needed to work on research project, requiring experience/training in molecular biology, especially PCR technology. Prospects exist for future faculty appointment. Salary negotiable. Send curriculum vitae and names of three references to: Dr. Prem Kumar, Chief, Section of Allergy/Clinical Immunology, Department of Medicine, Case Western Reserve University School of Medicine, 1842 Tulane Avenue, New Orleans, LA 70112-2822. LSU is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWS (TWO POSITIONS)

Available immediately. (1) To study mechanisms of virulence in rodent malaria parasites and host cell-mediated responses to these parasites. Areas of interest include cytokine responses, antigen processing of malaria antigens, and macrophage function. A malarial antigen expresses on the erythrocyte membrane is being studied as a model vaccine candidate. (2) To study mechanisms of protection against malaria in transgenic and knockout mouse models, including cytokine homeostasis, role of cytokines and splenic function. Experience in cell-mediated immunity and/or molecular biology required. U.S. citizens or permanent residents preferred. Please submit curriculum vitae and three letters of reference to: Dr. Hannah L. Shear, Department of Medical and Molecular Parasitology, New York University Medical Center, 341 East 25 Street, New York, NY 10010.
Discover a bright future at Sterling Research Group, the worldwide pharmaceutical research and development organization of Sterling Drug Inc.

**Drug Metabolism & Pharmacokinetics**

**Principal Research Investigator**

Responsibilities include providing leadership and direction in Bioanalysis; ensuring development of valid bioanalytical methods to support drug development and discovery, and prompt reporting of all related materials. This position will manage a team of 5-6 bioanalysts.

Qualified candidates will possess a Ph.D. in pharmaceutical or analytical chemistry and a minimum of 4 years' related experience beyond postdoctoral training. Experience in assay development using HPLC/GC methodologies, demonstrable management skills and familiarity with LIMS and LAS systems and worldwide GLP regulations required.

You will discover that we offer a competitive salary and benefits package. Sterling Research Group will be relocating to Upper Providence Township, Pennsylvania, in approximately 1993, and invites you to share in the opportunities now and in the future.


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**CARDIOVASCULAR PHARMACOLOGIST**

SmithKline Beecham, a world leader in pharmaceutical research, has an opportunity available for a Ph.D. Research Scientist to join its Cardiovascular Pharmacology Department. The selected candidate will establish and conduct independent research programs to explore cardiac function, mechanisms of coronary thrombosis and myocardial infarction in relevant in vivo models, and collaborate with intra- and extramural scientists to evaluate new pharmacological strategies for cardiac thrombotic diseases.

In addition he/she will integrate pharmacologic, physiologic, biochemical and cell biology methodologies to identify new therapeutic strategies for cardiac/thrombotic diseases, as well as analyze, report and present scientific data in intramural and extramural forums, including national and international conferences.

Qualified candidates will have a Ph.D. in Pharmacology/Physiology or a related discipline with at least two years of postdoctoral training in cardiac research. Candidates must also have proficiency in computerized systems including utilization of computers for data acquisition analysis, statistics and word processing, and a strong record of scientific publications in refereed professional journals in the field of cardiovascular research. High proficiency in techniques for monitoring regional and systemic hemodynamic variables, regional cardiac function and the coronary circulation, experience in blood cell (platelets, leukocytes) biology, cell adhesion molecules and oxygen radical biology is desired.

SmithKline Beecham Pharmaceuticals offers a stimulating and challenging scientific environment in which to grow and excel. We offer a competitive compensation/benefits/relocation package. For confidential consideration, please submit your C.V. along with the names of three references to: Nancy Hasson, Employment Administrator, #H0187, SmithKline Beecham, P.O. Box 1539, King of Prussia, PA 19406. We are an Equal Opportunity Employer, M/F/H/V.

**SmithKline Beecham**

Pharmaceuticals

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The George Washington University invites applications and nominations for the position of Dean of Arts and Sciences. The Dean is the educational leader and chief administrative officer for undergraduate and graduate programs in the arts, humanities, social sciences and biomedical, physical and mathematical sciences.

With a full-time faculty of nearly 5,000, Arts and Sciences is the largest academic unit in a research university which also has schools of Business and Public Management, Education and Human Development, Engineering, Law, Medicine, and International Affairs. The University, founded in 1821 as The Columbian College, is located on an attractive campus in the heart of Washington, D.C.

The University seeks applicants with the vision, energy and capabilities to build on our tradition of excellence. The person selected must be able to enhance the unique advantages afforded by our location in the nation’s capital in the continuing development of education and research programs responsive to the needs of this country and the world community.

Applicants must have a Ph.D. and a distinguished record of scholarship and teaching that warrants senior appointment in a department or program within arts and sciences. Competitive applicants will have a record of substantial leadership and administrative experience in an institution with graduate and undergraduate programs, although they might currently hold positions in research, educational, cultural or artistic institutions. Funds raising experience with foundations and/or federal agencies is also desirable.

Applications and nominations will be reviewed commencing November 15, 1991 and will continue until the position is filled. Preferred start date: January 1, 1992. Salary will be commensurate with experience and qualifications.

Send nomination or application, resume, and a short statement of personal educational goals and philosophy to:

Arts and Sciences Search Committee
Attention: Ms. Barbara Marshall
Rice Hall, Room 813
The George Washington University
Washington, D.C. 20052

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For our Product Development Group, we seek a Ph.D.-level (or equivalent) individual with 2-4 years' industrial experience, preferably in the diagnostics field. Preferred skills include low pressure chromatography, gel electrophoresis, spectrophotometry, enzyme analysis, ELISA, and surface chemistry. Responsibilities will include analyzing reagents, purifying proteins and other biochemicals, and participating in the development of immunologically-based diagnostic products.

**RESEARCH ASSOCIATE**

For our Natural Products Chemistry Group, we seek an experienced Research Associate to design and execute research and development experiments supporting new vaccines for human and animal use. Responsibilities include purification of adjuvants, vaccine formulation and testing with recombinant antigens and purified adjuvants.

Qualifications: M.S. or equivalent in chemistry, biochemistry or a similar scientific discipline with 2-5 years of related research experience, thorough knowledge of purification by chromatographic techniques, analysis by HPLC, thin layer chromatography, and spectroscopy (including UV, fluorescence and IR). Knowledge of organic and protein chemistry helpful.

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Please send your resume in confidence to: Cambridge Biotech Corporation, Human Resources Department, 365 Plantation Street, Box SCI, Worcester, MA 01605. EOE.

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**Hematology/Immunology**

This position involves the development of in-vivo and in-vitro models for the evaluation of biological efficacy and mechanisms of action of novel hematopoietic cytokines. Knowledge of hematology and/or immunology and demonstrated experience with myelosuppressed disease models is desirable. Experience with in-vivo models is ideal. A Ph.D. in a scientific discipline or an M.D. is required, with 0-1 year of experience. (5116)

**Infectious Disease Models**

A unique opportunity to investigate the potential therapeutic effects of cytokines in infectious disease is available in our Pre-Clinical Biology group. The successful candidate will have major research responsibility for this project area and will interact with both internal and external collaborators. Position requires a Ph.D., with experience in developing in-vivo models, preferably in infectious disease and cytokine biology. (5117)

Genetics Institute offers competitive salaries and benefits, including comprehensive medical, three weeks' paid vacation, 401(k) and stock purchase programs, tuition assistance, on-site exercise facility and free parking or T-Pass.

Please send resume, specifying Department of interest, to: Human Resource Department, Genetics Institute, Inc., 87 CambridgePark Drive, Cambridge, MA 02140. Genetics Institute is committed to diversity through Affirmative Action and Equal Opportunity Employment.

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**Hematology/Immunology**

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Please send resume, specifying Department of interest, to: Human Resource Department, Genetics Institute, Inc., 87 CambridgePark Drive, Cambridge, MA 02140. Genetics Institute is committed to diversity through Affirmative Action and Equal Opportunity Employment.
POSTDOCTORAL RESEARCH ASSOCIATE

The Department of Biochemistry has a position available for a postdoctoral research associate to study mechanistic details of mammalian B12-dependent enzymes. Qualifications include a Ph.D. degree in chemistry, biochemistry, or a related area. Experience in protein purification, enzyme kinetics and/or EPR spectroscopy is highly desirable.

Interested individuals should send applications, current curriculum vitae, statement of research interest and three letters of recommendation to: Dr. Ruma V. Banerjee, University of Nebraska–Lincoln, Department of Biochemistry, 110 BeH, East Campus, Lincoln, NE 68583-0718. Telephone: 402-472-2932; FAX: 402-472-7842.

POSTDOCTORAL/RESEARCH ASSOCIATE

McGill University/Lady Davis Institute for Medical Research of the Sir Mortimer B. Davis Jewish General Hospital.

Research laboratory interested in molecular and cellular pathways of hormone action and hormone action is looking for individual for postdoctoral/research associate level to work on gene expression regulation by thyroid hormones. Candidate, free-train interest in the field and exposure to techniques of molecular and cell biology. Please send letter stating career goals and resume.

Please send résumé to: J. Enrique Silva, M.D., Attention: Thérèse Davila, Lady Davis Institute for Medical Research, Sir Mortimer B. Davis—Jewish General Hospital, Hôpital Sir Mortimer B. Davis—St. Catherine Road, Montreal, Quebec, H3T 1E2, Canada.

RESEARCH ASSOCIATE to work with the design and synthesis of peptide mimetics as modulators of dopamine receptors. Requires a Ph.D. in medicinal chemistry. Through either education or experience must have: 2 years of experience in the design and synthesis of novel amino acid derivatives and peptide mimetics, 1 year of experience in 1D and 2D NMR spectroscopy, 6 months of experience in molecular modeling techniques, 3 years of experience in the use of UNIX-based software, and a strong background in the use of experience in MPLIC and HPLC chromatography (may be concurrent). Salary is $28,063 annually. Résumé to: Dick Hewson (#1-224), Minnesota Job Service, 300 North Robert, St. Paul, MN 55101.

RESEARCH ASSOCIATE. To work on the immunopathogenesis of AIDS. Must have M.D. and/or Ph.D. degree. Experience in working with biohazardous materials including HIV-infected cells and collection of clinical material. Must be familiar with lymphocyte, vascular biology and immunology with minimum of 3 years of postdoctoral experience. Position to begin July 1992. Send curriculum vitae and names and addresses of three references to: William T. D. M.D., Ph.D., Director, Immunology Section, The University of Michigan, 109 South Observatory, Room 2073 SPH-I, Ann Arbor, MI 48109-2029. Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE: NEUROPHYSIOLOGY. Position available for Ph.D. or M.D. with experience in electrophysiology, to join ongoing studies on ionic mechanisms of anoxic injury in CNS. Experience in electrophysiology is essential. Prior experience with computers, or with optical imaging, would be helpful. Excellent opportunities for collaboration with workers in other disciplines, including ultrastructural and molecular biology, immunology, neurochemistry, computer simulation, membrane biophysics, and pharmacology. Send curriculum vitae, three letters of reference, and statement of interest to: Bruce R. Ransoms, M.D., Ph.D., or George G. Waxman, M.D., Ph.D., Department of Neurology, LCI 702, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510. Equal Opportunity/Affirmative Action Employer.

SENIOR RESEARCH ASSOCIATE to provide long-term source of expertise in electron microscopy and ancillary services. Requires a Ph.D. in physics or materials science and 3 years of experience in electron microscopy. Must also have experience in TEM (transmission electron microscopy) sample preparation, TEM techniques, and computer processing of images. Ability to conduct scientific research and to be well-versed in scientific journals. Salary is $45,000 annually. Résumé to: Dick Hewson (#1-186), Minnesota Job Service, 390 North Robert, St. Paul, MN 55101.

POSITIONS OPEN

CENTER FOR ENGINEERING PLANTS FOR RESISTANCE AGAINST PATHOGENS (CEPRAP)

RESEARCH GROUP MANAGER

CEPRAP, an NSF Science and Technology Center at the University of California, Davis, seeks a Ph.D. scientist to lead the resistance genes group focused on the genes and molecules involved in plant-pathogen recognition, primarily in tomato. The appointee will also manage the Resistance Genes Laboratory. The successful candidate should preferably have at least 2 years of postdoctoral experience, and be superbly skilled in (1) molecular genetics, particularly mammalian genetics, and (2) plant genetics. Some experience with linkage analysis and laboratory management will be desirable. Appointment will be as an ASSISTANT RESEARCH GENETICIST, 11 months, 80%/time. Option for a further 20%/time on independent research in plant-microbe interactions, contingent on obtaining outside funding. Starting date is 1 February 1992 or as soon as possible thereafter. Send curriculum vitae, transcripts, list of publications, statement of research interests, and names and addresses of three references to: Dr. Stephen P. R. Talalay, Director, CEPRAP, University of California, Davis, CA 95616. The University of California is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE VASCULAR CELL BIOLOGY AND ATHEROSCLEROSIS. Medical Care Center and Research Facility in Cleveland, Ohio. Openings are available to study: (1) treatment of atherosclerosis; (2) effects of angiotensin/antagonists of monocyte adhesion in culture cells of rat aortic endothelial cells. Use results to establish an in vivo model (rat) to study events in arteriosclerosis. Analyze and operate on rats to conduct fine dissection of blood vessels and microvascular dissection of the endothelial-media interface, for en-face study. Develop new and test ways to inhibit this phenomenon. (2) Study effect of alpha-tocopherol on protein kinase C, with respect to its role in monocyte-endothelial cell adhesion and in the formation of the monocyte-endothelial cells. (3) Study effect of different harvesting methods of saphenous veins for coronary artery bypass grafts, on the morphology of endothelial cells and their ability to grow in culture. Use criteria in study of long-term patency of grafts. M.D. or Ph.D. in vascular cell biology. One year of experience in job offered or one year of experience as postdoctoral fellow/clinician dealing with arteriosclerotic disease. Related occupation experience must include research in vascular cell biology or vascular surgery. Forty hours per week, 9-5 p.m. to 6:30 p.m. Monday to Friday, $25,000 to $30,000 per year. Must have proof of legal authority to work permanently in the United States. Send resume in duplicate (no calls) to: R. Lechler, M.D., Director, Medical Care Services, P.O. Box 1618, Columbus, OH 43216.

ASSISTANT RESEARCHER. To conduct clinical and epidemiological studies of HTLV-I sequences in patients; use new technologies to develop diagnostic and prognostic markers to follow clonal progression of HTLV-I in infected individuals; teach molecular techniques to medical students and residents; responsible for daily research activities and laboratory management. Minimum qualifications: M.D. degree with not less than 3 years postdoctoral research experience in molecular and cell biology, familiar with retrovirology, PCR, cell culture, cell fragmentation and procedures handling biohazardous specimens. Annual salary: $37,080. Send curriculum vitae and three letters of recommendation to: Max G. Botticelli, M.D., Professor and Chairman, Department of Medicine, University of Hawaii, 1356 Lusitania Street, 7th Floor, Honolulu, HI 96813. Affirmative Action/Equal Opportunity Employer.

ASSISTANT RESEARCHER. The University of California, San Diego (UCSD), has a position available to work in areas of signal transduction involving calcium and phosphoinositides. Ph.D. or equivalent required. Research experience in the area of signal transduction is desirable. Salary based on established UCSD salary schedules. Apply by 31 October 1991 to: Dr. Stephen Pandol, Valley Hospital, Department of Medicine, 3350 La Jolla Village Drive, San Diego, CA 92161. UCSD is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT CANCER RESEARCH SCIENTIST

A position is immediately available for an individual to conduct research into the structure and function of naturally occurring antiserum RNA. Evidence of scholarly research, good communication skills and molecular biology expertise essential. The appointee should be highly motivated, have a Ph.D. and experience cloning and characterizing RNA. Salary is approximately $33,000 per year. Send applications to: Dr. Bruce Dolnick, Grace Cancer Drug Center Department of Experimental Therapeutics Roswell Park Memorial Elm and Carlton Streets Buffalo, NY 14263 FAX: 716-848-0550

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The Anatomy Department of the Medical College of Ohio has openings for NEUROBIOLOGISTS studying neural organization at the molecular, cellular, or system level. Appointments may be either tenured or tenure track. Applicants for assistant professorship should have demonstrated the ability to establish and support funded research program. Applicants for more senior appointments should have ongoing and funded programs. The Medical College and the Department of Anatomy offer excellent core facilities and very competitive salaries and start-up funds. New faculty will join a neuroscience group which has expanded substantially over the past 3 years, and which will continue to expand over the next 3 to 5 years.

STATISTICIAN. Design and evaluate clinical studies for pharmaceutical product, primarily clinical trial statistical analysis. This position utilizes nonnull models for ranks statistics in bivariate, two-sample and analysis-of-variance problems. Write the computer software programs for task evaluation. Write the computer software programs for statistical analysis of clinical data on IBM computer. Collaborate with clinical research associate and jointly develop technical reports for submission of new drug application by summarizing and evaluating clinical data. Ph.D. in statistics and 1 year of experience as statistician or 1 year of experience as actuarial assistant and/or research assistant required. Applicant must have conducted research in the area of molecular biology and evolution to write computer programs which analyze nucleotide sequences of HIV inhibitors. Additional qualifications: must have statistical research experience in the use of ranks statistics in bivariate, two-sample and analysis-of-variance problem, the results of which have been accepted for publication in at least one scientific journal. For full consideration, send resume to: 3, 4 and 5 South Chicago, IL 60605, Attention: Maxine Counts, Reference #V-113856-C. No calls. An employer-paid ad.

MOLECULAR BIOLOGIST. A position is available immediately for an individual with a Ph.D. in molecular biology or a related discipline in the Alzheimer Research Center at the Department of Veterans Affairs Medical Center (VAMC) in Omaha, Nebraska. The successful candidate will supervise the Molecular Biology Core Laboratory and initiate a research program on alcohol-induced cellular toxicity. Postdoctoral training is preferred with experience in recombinant DNA technology, molecular cloning, PCR and gene expression. Excellent salary and benefits package available. Please send resume by close of business 1 November 1991 to: Karen Rowe, Personnel Service (05) Department of Veterans Affairs Medical Center 4101 West Dodge Road Omaha, NE 68105 VAMC is an Equal Opportunity Employer.

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Antiviral Enzymologist Scientists

The Antiviral Enzymology Group in the Department of Biological Chemistry of Merck Sharp & Dohme Research Laboratories invite applications for positions at the level of senior research biochemist/biophysicist, postdoctoral fellow and research technician. The positions will involve mechanistic and biophysical studies of enzymes and proteins involved in the replication, infectivity or pathogenicity of human viruses. Identification of potential drugs and development of approaches to inhibition of target enzymes are focuses of our efforts.

Applicants for the first position (Senior Research Biochemist/Biophysicist) must have postdoctoral experience. Applicants for the second position (Postdoctoral Fellow) should be a recent Ph.D. graduate or someone anticipating to graduate within the next 6 months. For either position, the candidate must hold strong background in chemistry and biochemistry. Expertise in protein chemistry, kinetics, and enzyme structure-function analysis are prerequisites. Experience in subcloning and mutagenesis is useful but not required.

Applicants for the third position (Research Technican) should hold either a B.S. or M.S. degree in chemistry or biochemistry, preferably with 1-2 years experience in protein purification and general biochemistry lab training. Experience in enzyme kinetics is highly desirable.

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

Please send curriculum vitae with references, transcripts and cover letter to:

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West Point, PA 19486

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We offer excellent compensation, benefits and career advancement. Our research laboratory is just minutes away from Princeton University and convenient to many other cultural, educational and leisure activities. Please forward resume with salary requirements to: WYETH-AYERST RESEARCH, Personnel Manager, CN 5000, Position #504, Princeton, NJ 08543-8000. An equal opportunity employer, M/F/II/V.

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ASSISTANT MEMBER (Biostatistician) to serve as collaborative studies biostatistician for a national cancer preventive research study investigating the effectiveness of work site programs for cessation of smoking, adopting a low fat, high fiber diet and improving occupational health. Will work with an interdisciplinary team including physicians, psychologists, biochemists, sociologists, nutritionists and epidemiologists. Will develop new methodologies to improve the design and analysis of group randomized studies and direct data analysis and quality assurance for the data. Will write results in publishable form for refereed journals.

Must have Ph.D. in statistics, biostatistics or biometry. Must have 1 year of experience in the job offered or 2 years of experience in statistical data analysis. Must have: (1) bachelor's level or equivalent experience in sociology or a biological science; (2) coursework at graduate level in, or research record that demonstrates a knowledge of, components of variance and sampling techniques; (3) graph RTsumi, data analysis techniques; (4) 6 months experience using SAS (Statistical Analysis System) and a computer language such as FORTRAN, PASCAL or GAUSS. Experience requirements may be waived. Must be first author on two articles published in a refereed journal. Salary range of $43,000 to $46,000 per annum depending upon experience and qualifications. Must be willing to work in the United States. Positions located in Seattle, Washington. An Equal Opportunity Employer. Please send résumé by 4 November 1991 to Human Resources Department, E.S. Division, Attention: Job #720477-F, Olympia, WA 98504.

FISH NUTRITIONIST/AQUCULTURIST

The U.S. Fish and Wildlife Service, Longview, Washongton, seeks a specialist in fish nutrition and aquaculture to perform research and development work on feeds and culturing methods for anadromous fishes. The incumbent also serves as the Assistant Director of a facility which produces 1.5 million Pacific salmon smolts each year. Salary range: $37,294 to $48,851. Call: Julie Swanberg at 503-231-6184 for application procedures. Application period: 1 October 1991 to 31 October 1991.

FLOW CYTOMETRY

Position available to manage, operate and develop the Flow Cytometer Facility at Fred Hutchinson Cancer Research Center. Several years of research experience using flow cytometry including knowledge of cell sorting, cell sorting equipment, and cell sorting techniques; extensive experience using instrumentation including optics, lasers, computers, and knowledge of the design, construction and operation of instrument operation and experience in instrument problem-solving required. Excellent communication, teaching, leadership and managerial skills are necessary. P.H.D. required. Excellent benefit package and a smoke-free environment. FAX résumé to: 206-667-4051, apply in person, or send résumé to:
Fred Hutchinson Cancer Research Center
Human Resources Office #FIN-2267
1124 Columbia Street, MP900
Seattle, WA 98104
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PHARMACEUTICAL RESEARCH SCIENTIST

Recommendation, development and evaluation of new drug products, pharmaceutical dosage forms, packaging and manufacturing processes; planning, designing, initiating, conducting and coordinating product development preformulation and formulation strategies and studies. Position requires at least 4 years of college education in pharmacy and a Ph.D. in pharmaceutical sciences. Prior academic and/or industrial research experience in the development and evaluation of topical (ophthalmic, dermal and aerosol) drug delivery systems, and a training in industrial pharmacy including knowledge of processes and equipment used in the manufacture of solid, semi-solid and liquid dosage forms are required. Background in pharmacokinetics, physical and analytical chemistry. Salary: $41,666 per month. Place of employment: Mountain View, CA. Send letter ad and your résumé or letter of qualifications to: Job #WS 12844, P.O. Box 9560, Sacramento, CA 95823-0560, not later than 30 June 1991.

RESEARCH SCIENTIST

Saint Francis Hospital and Medical Center, located in Hartford, Connecticut, is seeking a candidate to join our department of Research and Heart Institute to establish a new program in vascular biology. Candidates should have completed a doctorate degree and a postdoctoral fellowship and have prior experience in molecular aspects of vascular cell. Candidates will be eligible for appointment at the University of Connecticut School of Medicine. Interested candidates should send a résumé and references to: Dr. Ernesto Canalis, Saint Francis Hospital and Medical Center, 114 Woodland Street, Hartford, CT 06105. FAX: 203-548-5415. Equal Opportunity Employer.

TOXICOLOGIST/RISK ASSessor. The Maryland Department of the Environment is seeking two qualified individuals to conduct risk health assessments and address current environmental problems. Experience will also function as the Chief of Environmental Toxicology/Risk Assessment Division. Applicants should have a master's or Ph.D. in environmental or related health sciences and 2 to 3 years of experience in regulatory toxicology and writing risk assessments. Send curriculum vitae to: Dr. Boon Lim, Maryland Department of the Environment, 2500 Bronning Highway, Baltimore, MD 21224. For more information call 301-631-3851. Equal Opportunity Employer/Affirmative Action.

ANNOUNCEMENTS

RESEARCH INQUIRIES INVITED

The Smokeless Tobacco Research Council, Inc. invites inquiries regarding grant applications. The Council sponsors independent research into questions of smokeless tobacco and health. Research support is through a program of grants-in-aid. Grante applications are evaluated by the Scientific Advisory Board to the Council and will be judged solely on the basis of scientific merit and relevance.

Deadline for submission of grant applications are 31 December for 1 July 1992 and 1 January 1993. Address inquiries or requests for applications to: The Smokeless Tobacco Research Council, Inc., 420 Lexington Avenue, New York, NY 10170. Telephone: 212-697-3485.

COURSES AND TRAINING

GRADUATE STUDIES IN BIOLOGY. The Department of Biology at Northeastern University issues applications for graduate study leading to M.S. or Ph.D. degrees in one of the following fields: ecology, marine biology, microbiology, molecular and cellular biology, physiology or vertebrate biology. Teaching assistantships (including tuition waiver) are available for qualified applicants beginning September 1992. For information contact: Graduate Coordinator, Department of Biology, Northeastern University, Boston, MA 02115. Northeastern University is an Equal Opportunity, Affirmative Action, Title IX Employer.

POSTDOCTORAL TRAINING PROGRAM IN MEDICAL GENETICS

The Interdepartmental Medical Genetics Program at Stanford University School of Medicine provides advanced clinical and/or research training related to human inherited disease. Areas of the program are among the 28 training faculty include: the molecular basis of heritable disorders including polygenic and multifactorial diseases; chromosome structure and function; genome and gene mapping; development of methods to manipulate and study large fragments of DNA; developing animal models and new treatment modalities of human genetic disease by homologous recombination. Individuals with an M.D., Ph.D. or equivalent degree are eligible for this program which includes an extensive research of required training and the opportunity to pursue applied training in clinical genetics, clinical cytogenetics, or molecular genetics in an American Board of Medical Genetics-accredited setting. The program is supported in part by an NIH training grant. Applications from minority individuals are especially encouraged. Information and applications available from: L. Peter Franke, M.D., Training Program Director, Departments of Genetics and Pediatrics, Howard Hughes Medical Institute, Stanford, CA 94305-5428.

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