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 year. Call for holiday deadlines. 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 advertisements stated in ad must be at least 2 weeks after date of publication. Include billing information, and desired publication date. Available categories: Positions Open, Meetings, Announcements, Courses and Training.

Mail or FAX materials to:
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1333 H Street, N.W., Room 814
Washington, DC 20005
Telephone: 202-326-6555
FAX: 202-682-0816

Rates: Ads are $42 per line; $420 minimum. One line equals 52 characters and spaces; centered headings equal 32 characters and spaces. A 3% cash discount is granted to all publishers. If you would like Science to estimate cost, indicate on letter.

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Deborah Cummings
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Telephone: 212-496-7704
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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, handicap 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.

SCIENCES

POSITIONS OPEN

ASSISTANT PROFESSOR. The Department of Physiology and Biophysics at the University of Arkansas for Medical Sciences (UAMS) invites applicants for a full-time, tenure-track position. Applicants should have at least two years of postdoctoral experience, be capable of establishing an independent research program supported by extramural funds, and participate in teaching of physiology to medical and graduate students. While the department will consider all areas of physiological research, candidates who utilize cellular or molecular approaches to answer questions of physiological significance are particularly encouraged to apply. Curriculum vitae, representative publications, and the names of three references should be sent to: Lawrence E. Cornett, Ph.D., Department of Physiology and Biophysics, Slot #505, University of Arkansas for Medical Sciences, West Markham Street, Little Rock, AR 72205 by 31 August 1992. UAMS is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR POSITION in Molecular Biology. The University of Texas (UT) M.D. Anderson Cancer Center, Science Park Research Division in Smithville, Texas is expanding into new laboratories and invites applications for a tenure-track position at the Assistant Professor level. Research at Science Park encompasses programs in mechanisms of multistage carcinogenesis, retrovirology, DNA damage and repair, and genetics. Successful candidate will be expected to establish a high-quality, independent research program. Preference will be given to applicants working in the area of molecular biology of cancer, emphasizing tumor suppressor genes, oncogenes, and cancer genetics. Consideration will also be given to strong applicants in other areas of molecular biology related to carcinogenesis. Submit curriculum vitae, representative publications, a brief outline of current and future research plans, and three letters of reference by September 1, 1992, to: Dr. M.C. MacLeod, U.T. M.D. Anderson Cancer Center, Science Park–Research Program, P.O. Box 389, Smithville, TX 78957. Equal Opportunity/Affirmative Action Employer.

BIOLGIST—ASSISTANT PROFESSOR and DIRECTOR OF THE NFB FIELD STATION. The Biology/Microbiology Department invites applications for a nine month tenured track teaching, research and direction position beginning Fall, 1993 in Biology or related area with emphasis in environmental biology and natural resources, demonstrated effective teaching ability or potential, skill in communicating with students, effective interpersonal relations skills, and the ability to develop programs that interface agriculture with natural resources are required. Experience in directing or working with a field station or similar extension program, grant writing, and generating extramural funding are highly desirable. Send letter of application with curriculum vitae, statements of teaching philosophy and research interests, documentation of experience in directing or working with a field station, and three letters of reference by September 1, 1992 to: Dr. Gary Peterson, Chair Search Committee, Box 22078, South Dakota State University, Brookings, SD 57007. Telephone: (605) 688-6141. Affirmative Action/Equal Opportunity Employer.

BIOLGIST SCIENCE EDUCATOR

The Department of Biology at Southwest Missouri State University (SMSU) invites applications for a tenure-track position at the ASSISTANT PROFESSOR rank. The preferred starting date is January, 1993. To be considered, applicants must have earned a doctorate in Biology or Science Education and college teaching experience. Duties include teaching introductory-level courses in biology and an upper-division course in an area of expertise, advisement of teacher education students, coordination of the biology teacher education program, and participation in the profession. Successful candidates are expected to publish research that addresses teaching, curriculum and student learning. Submit curriculum vitae, transcripts and names of three references by September 1, 1992 to: Dr. Steve Jensen, Biology Science Educator Search Committee, Department of Biology, Southwest Missouri State University, 901 South National, Springfield, MO 65804–0095. SMSU is an Affirmative Action/Equal Opportunity Employer and encourages applications from minorities and women.

POSITIONS OPEN

ASSISTANT PROFESSOR

CELL, MOLECULAR OR DEVELOPMENTAL BIOLOGIST

Outstanding candidates with a strong commitment to research and teaching in Graduate and Medical School curricula are sought for a tenure-track position. The successful candidate's research area will be in the broad area of Cell and Molecular Biology and complement existing research programs. Salary, startup funds and facilities are nationally competitive. Applicants should send curriculum vitae, a brief description of research plans and three letters of recommendation to: Search Committee, Department of Cell Biology and Anatomy, Texas A&M Health Sciences Center, 3601 4th Street, Lubbock, TX 79430 by 15 October 1992. Equal Opportunity Employer.

SOUTHEASTERN LOUISIANA UNIVERSITY (SLU)

DEPARTMENT OF BIOLOGICAL SCIENCES

CONSERVATION BIOLOGY. Tenure-track position at the ASSISTANT PROFESSOR level to join active program in environmental and evolutionary biology, starting either January or August, 1993. Candidates should have a strong background in conservation biology of birds or mammals. Teaching involvement includes conservation biology, comparative anatomy, and course in taxonomic specialties. Submit curriculum vitae, statement of teaching interests, and names of three references to: Dr. Gary Childers, Department of Biological Sciences, Southeastern Louisiana University, P.O. Box 814, S.L.U., Hammond, LA 70402, no later than November 21, 1992. SLU is an Equal Opportunity Employer.

MOLECULAR DEVELOPMENTAL GENETICIST

The University of British Columbia (UBC), Vancouver, Canada: The Department of Medical Genetics invites applications for a position in molecular or human Molecular Developmental Genetics. Appointment will be at the ASSISTANT PROFESSOR level with the possibility of a higher rank for an especially suitable candidate with more experience. Preference will be given to individuals whose research involves molecular approaches to the study of the genetic basis of development. Candidates for this position must have a doctoral degree, a minimum of two years of postdoctoral experience, and demonstrated independence in professional research abilities. The successful candidate will be expected to develop a vigorous, independent research program in an interactive environment, and maintain an enthusiastic teacher. The anticipated start date is January 1, 1993. The deadline for applications is September 30, 1992 or until such a suitable candidate is found. UBC encourages qualified women and minority applicants. Salary will be commensurate with qualifications and experience. This appointment is subject to final budgetary approval. In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents. Applications, including curriculum vitae, selected reprints, a statement of research interests and present research activities, and the names of three referees, should be sent to: Dr. J.M. Friedman, Head, Department of Medical Genetics, The University of British Columbia, Room 226–6174 University Boulevard, Vancouver, B.C. CANADA V6T 1Z3.

TERRESTIAL VERTEBRATE BIOLOGIST: ASSISTANT PROFESSOR, tenure-track Ph.D., required, beginning January or September 1993. We seek a broadly trained vertebrate biologist interested in working closely with undergraduate and graduate students (M.S. level) and capable of teaching in at least two of the following areas: mammalogy, ornithology, herpetology, wildlife ecology, and museum research. Training in these areas may lead to courses (non-majors in our General Education Program is a requirement. Strong commitment to teaching and the ability to secure program required. Applicants should submit a letter of application, statement of academic philosophy and research goals, résumé, transcripts, and have at least three letters of reference sent to: Dr. E. Kelly, Assistant Professor and President, SUNY Brockport, Brockport, NY 14420.

Innovative research at Sandoz has been enhancing medicine around the world for over a century. Pioneering drugs have extended and improved the quality of life for countless individuals and revolutionized basic scientific concepts within the transplantation and mental health fields.

As a result of a major expansion into oncology research, the Sandoz Research Institute seeks highly-motivated and creative scientists. Successful applicants will be part of multidisciplinary teams of scientists using state-of-the-art technology in modern newly-opened research facilities.

Major responsibilities at all levels include the design, synthesis, purification and identification of appropriate quantities of novel chemical entities in support of various cancer drug discovery programs.

**MEDICINAL CHEMISTS**

**Assistant Fellow**

Ph.D. in Organic Chemistry (or less preferably, Medicinal Chemistry) and 0-3 years of postdoctoral experience in academic and/or industrial setting. Extensive training/experience in the synthesis of complex molecules required. Thorough training in, and familiarity with, modern separation and analytical methods. Previous experience in cancer and/or chemotherapeutic drug development preferred. Computer literacy and familiarity with a variety of appropriate chemistry-related software packages and some modelling experience preferred. Ability to coordinate research efforts with other team members. Communication skills to present/explain scientific results. Position #2292MS.

**Associate Fellow (2 Positions)**

Ph.D. in Organic Chemistry (or less preferably, Medicinal Chemistry) and 3-6 years of postdoctoral experience in academic and/or industrial setting. Extensive training/experience in the synthesis of complex molecules required. Thorough training in, and familiarity with, modern separation and analytical methods. Previous experience in cancer and/or chemotherapeutic drug development. Computer literacy and familiarity with a variety of appropriate chemistry-related software packages and some modelling experience preferred. Ability to coordinate research efforts with other team members. Communication skills to present/explain scientific results. Supervisory experience preferred. Position #2290/09MS.

**Postdoctoral Research Associate**

Ph.D. in Organic Chemistry. Extensive training/experience in the synthesis of complex molecules required. Thorough training in, and familiarity with, modern separation and analytical methods. Initial work will include the synthesis of sequence-specific DNA binding agents. Analysis of the binding of these agents to DNA will also be performed by the scientist. Experience with gel electrophoresis and with radioisotopes preferred. Computer literacy and familiarity with a variety of appropriate chemistry-related software packages and some modelling experience preferred. Communication skills to present/explain scientific results.

Postdoctoral openings are for one year, extendible up to two years by mutual agreement. Position #377MS.

**B.S./M.S. Chemist**

Major responsibility is the design, synthesis, purification and identification of appropriate quantities of novel chemical entities in support of various cancer drug discovery programs. The individual will collaborate/interact with a broad group of scientists in Oncology Research and other areas at Sandoz and with various outside collaborators.

M.S. in Organic Chemistry and 3-5 years of experience or equivalent in academic and/or industrial setting. Extensive training/experience in the synthesis of complex molecules. Thorough training in, and familiarity with, modern separation and analytical methods. Previous experience in cancer and/or chemotherapeutic drug development preferred. Computer literacy and familiarity with a variety of appropriate chemistry-related software packages preferred. Communication skills to present/explain scientific results. Position #2293DC.

Being part of the research team at Sandoz has many advantages. Our salaries and benefits programs are designed to attract top candidates and provide them with the resources to produce their best. Comprehensive health, dental, and savings plans as well as fitness and athletic facilities are all provided at our attractive location in northwest New Jersey, which also allows for outstanding academic, cultural and outdoor pursuits. For consideration, please forward your curriculum vitae, a statement of research interests and the names and addresses of three references to:

SANDOZ PHARMACEUTICALS CORP  
SRI Human Resources Department  
Building 403/1  
East Hanover, New Jersey 07936  
An Equal Opportunity Employer M/F/D/V
POSITIONS OPEN

HUMAN GENETICS AT THE UNIVERSITY OF UTAH

The University of Utah, Department of Human Genetics would like to fill two faculty positions at the Research Assistant Professor level. The Department would like to recruit candidates that have a Ph.D. with three or more years of research in creation of mice that carry targeted or spontaneous mutations in specific genes involved in inner ear development using gene targeting in embryonic stem cells. Analysis of mutant phenotypes presented by mice that carry targeted or spontaneous mutations in specific genes is an ongoing major research activity in the Department. Knowledge of mouse genetics, development and anatomy. Specific techniques used: DNA cloning and sequencing, Southern and Western blotting, knowledge of mammalian cell culture; Histology, histochemistry and immunohistochemistry in situ hybridization. Applications submitted after the deadline may be considered if no qualified candidates have applied by the deadline. Send curriculum vitae and references to: Dr. Raymond F. Gesteland, Human Genetics Department, University of Utah, Building 533, Room 2100, Salt Lake City, UT 84112. The University of Utah is an Equal Opportunity Employer.

VERTEBRATE BIOLOGIST

The Department of Biology at Southwest Missouri State University (SMSU) invites applications for a tenure-track position at the Assistant Professor rank. Refer to the announcement in the January 1993 issue of Science. Applicants must have a Ph.D., teaching experience at the undergraduate level and evidence of productive research in vertebrate biology. The University and Department are committed to teaching responsibility. Ability to teach Comparative Anatomy. Other teaching duties will include participation in the general zoology program and instruction in the applicant's specialty. The successful candidate is expected to seek outside funding to support an active research program. Applicants should send curriculum vitae, transcripts, and the names and addresses of three references to: Dr. Russell Rhodes, Verterbrate Biologist Search Committee, Department of Biology, Southwest Missouri State University, Carthage, MO 64836. SMSU is an Affirmative Action/Equal Opportunity Employer.

VISITING ASSISTANT PROFESSOR OF BIOLOGY NON-TERENURE TRACK

The College of Basic Sciences, Louisiana State University (LSU), anticipates a non-tenure track visiting assistant professor position to begin on August 20, 1992. This is a teaching position supported by grant funds for persons intending to pursue a career in college level science teaching. The position includes laboratory course coordination and supervision of student workers and teaching assistants in major and minor introductory laboratories as well as one lecture section in introductory biology. The successful applicant will also have administrative/research responsibilities associated with educational grant initiatives at LSU. A Ph.D. in any field of biology is required. Applications including curriculum vitae, three letters of reference, and a written statement of educational objectives should be addressed to: Dr. Marshall D. Sundberg, 32 Agricultural Administration, Louisiana State University, Baton Rouge, LA 70803. Application deadline August 5, 1992. LSU is an Equal Opportunity/Equal Access Employer.

BIOMEDICAL RESEARCH LABORATORY MANAGER, CHILDREN'S HOSPITAL

Manage a basic biomedical research laboratory involving several principal investigators and ca. $3.0 million annually. Provide administrative and financial services, supervise technical staff and serve as a computer and graphics resource. Represent the Laboratory to the Hospital, Harvard Medical School and outside vendors. Requires excellent management skills, detailed familiarity with biomedical research labs, knowledge of Marine, especially graphics applications, and at least five years of experience. Send curriculum vitae and references to: Morton Bernfield, M.D., Joint Program in Neonatology, Harvard Medical School, 300 Longwood Avenue, Boston, MA 02115.

POSITIONS OPEN

FORESTRY DEPARTMENT CHAIR

Candidates must have: an earned doctorate and a degree in forestry or another renewable natural resource field; strong teaching, research and service credentials and an outstanding record of scholarly accomplishments; proven communication skills. Applicants should send résumé, academic transcripts and names of five references to: Dr. Loukas G. Arvanitis, Department of Forestry, University of Florida, Gainesville, FL 32611-0420. Application deadline: October 15, 1992.

HEAD, DEPARTMENT OF BIOCHEMISTRY FACULTY OF MEDICINE THE UNIVERSITY OF BRITISH COLUMBIA

The Faculty of Medicine, University of British Columbia (UBC) invites applications and nominations for the position of Head of the Department of Biochemistry. We seek an academic leader who will direct and develop the teaching and research programs of the Department. The Department has 25 Full-Time Faculty members and attracts research support of approximately $5.5 million annually. Candidates should be qualified biochemists with a proven record of scholarly achievement and a strong research background, a commitment to undergraduate and graduate teaching and the ability to encourage and to develop interdisciplinary initiatives. Starting date will be July 1, 1993. Salary will be commensurate with qualifications. This appointment is subject to final budgetary approval.

UBC encourages qualified women and minority applicants. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents.

Applications, accompanied by detailed curriculum vitae, statement of teaching interests, and names and addresses of at least five references to be sought outside faculty, should be received by September 30, 1992 to Dr. M.J. Hollenberg, Dean, Faculty of Medicine, University of British Columbia, Room 319, Health Sciences Labour, Vancouver, B.C. CANADA V6T 1Z3.

GENETIC TOXICOLOGIST

Microbiological Associates is a leading international provider of mutagenicity testing services to the chemical and pharmaceutical industries. Our growing businesses have provided an immediate opportunity for an outgoing individual holding an M.S. or Ph.D. degree to join our staff of experienced scientists.

The DEPARTMENT MANAGER/STUDY DIRECTOR will oversee in vitro and in vivo cytogenetics assays and assist in the development of new assay systems and methods. The successful applicant should have four years of experience in a GLP-compliant industry or contract lab preferred.

We offer a comprehensive compensation package that includes medical, dental, vision, and a competitive salary (80% to 100% of qualifications). Microbiological Associates is located in Frederick, Maryland.

WILDLIFE RESEARCH ADMINISTRATION

The U.S. Fish and Wildlife Service in Janesview, North Dakota, seeks a SENIOR WILDLIFE RESEARCH MANAGER to administer its Northern Prairie Wildlife Research Center located in Janesview with field stations in Don, California; De soto, California; and LaCrose, Wisconsin. The Center is responsible for conducting research on waterfowl west of the Mississippi River and the Gulf coast. The Center Director is responsible for integrating management of a broad, multidisciplinary program on migratory birds, upland and aquatic wildlife. Applicants must have one year of specialized experience equivalent to the next lower grade level in the Federal service. Salary range: $43,253 to $83,502 (GM-15).


HEAD, DEPARTMENT OF BIOLOGY UTAH STATE UNIVERSITY

A distinguished scientist is sought to serve as head of a large and diverse biology department. The candidate must have demonstrated administrative ability, and an understanding of the teaching, research and extension roles of a land-grant university. A broad appreciation for teaching and research in the ecological, organismal, and molecular aspects of biology from both basic and applied perspectives is necessary. Significant academic experience, a notable research career, and recent success in external (ad)visory requests. The candidate should be tenurable at the full professor level. The head oversees the activities of 45 faculty, 9 administrative assistants, one administrative and 75 graduate students. The head also promotes the department's affiliations with other campus units including the Biotechnology Center, Ecology Centers, Extension Services, Molecular Biology Program, and Utah Agricultural Research Station. Candidates must send curriculum vitae, a statement of research, teaching and administrative goals, and have three reference letters sent to: Dr. Jon Takekomo, Chair, Search Committee, Department of Biology, Utah State University, Logan, UT 84322-5850, telephone: (801) 750-1757. Screening of applications will begin October 1, 1992, and will continue until a suitable candidate is found. Utah State University is an Affirmative Action/Equal Opportunity employer. Women and minorities are strongly encouraged to apply.

BIOLOGY INSTRUCTOR WASHTENAW COMMUNITY COLLEGE

A comprehensive two-year college dedicated to student, community, and staff success, is presently seeking a qualified individual to teach preparatory, first and second year college-level courses in Biology. Prefer a person with a Ph.D. in Biology, Cell Biology, Botany, and/or General Biology. The College is located in the city of Ann Arbor, Michigan, a community of over 100,000, whose cultural, educational, and recreational environment offers a diverse experience.

The successful applicant will have a Master's degree in Biology, Biology Education or closely related Biology area, two years of successful teaching experience, preferably at the community college level and demonstrated experience in developing Biology teaching materials.

Anticipated date of appointment is January 4, 1993. Initial annual salary: $26,900; dependent upon education and related experience; base of 32 weeks/450 contact hours/160 days per academic year with numerous fringe benefits.

Applications should include at least three letters of reference and a résumé. For the position, the official WCC application form is August 31, 1992. Résumés received in lieu of official WCC application are not acceptable.

Applications should be sent to: Chair, Search Committee, Office of Human Resource Management, Washtenaw Community College, 4800 East Huron River Drive, PO Box D-1, Ann Arbor, MI 48106. Telephone: (313) 973-3497. The College, through its Affirmative Action goals, is seeking candidates who will augment the diversity of its faculty, staff and administration.

FACULTY POSITION BIOLOGY OF INFECTIOUS DISEASES

The Department of Molecular Genetics and Cell Biology at The University of Chicago invites applications for a junior or intermediate level position to investigate the basic biology of infectious diseases. Host-parasite interactions, the immune response to infection, and basic mechanisms of pathogenesis by bacteria, fungi and parasites are examples of research interests appropriate for this position. Significant postdoctoral experience is required. In addition to establishing an independent research program and supporting the graduate programs of the Department and of the Division of the Biological Sciences, the individual filling this position will have responsibilities for advising and training the students and trainees of the Department of Medicine and of Pediatrics interested in infectious diseases. Applicants should send curriculum vitae, a statement of research interests and a list of at least three references to: Dr. Wolfgang Epstein, Microbiology Search, Department of Molecular Genetics and Cell Biology, 5855 South Ellis Avenue, Chicago, IL 60637-1474. The University of Chicago is an Affirmative Action/Equal Opportunity Employer.

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MOLECULAR VIROLOGY
Faculty-Level Position at the NIH

A tenured/tenure-track position is available in the Laboratory of Viral Diseases, NIAID, NIH. The Laboratory is located on the intramural campus of the NIH in Bethesda, Maryland, and has outstanding facilities and resources. It comprises five independent sections and is similar to a small academic department. Current interests of the present staff include: regulation of viral gene expression; DNA replication and recombination; virus receptors; assembly of virus particles; mechanisms of viral pathogenesis; cell-mediated immunity to viruses and antigen processing; and new approaches to vaccines and antiviral agents. The successful applicant will receive resources to establish and maintain an independent research program involving molecular virology. Salary will be commensurate with experience.

Applications should include a c.v. with bibliography, a statement of research interests and the names and addresses of three references. Applications should be sent to:

Dr. Bernard Moss, Chairman
Search Committee
Laboratory of Viral Diseases, NIAID
National Institutes of Health
Building 4, Room 229
9000 Rockville Pike
Bethesda, MD 20892

NIH is an Equal Opportunity Employer

Postdoctoral Opportunities at Pfizer

The Central Research Division of Pfizer Inc offers three unique postdoctoral positions, each comprising a 3 year appointment that includes 18 months in our laboratories followed by 18 months in an academic laboratory.

Brown Fat Metabolism
This position requires a scientist with a PhD in Molecular Biology or related area and an interest in obesity and brown fat-specific gene regulation. The study, to be carried out in the Department of Molecular Genetics at Pfizer and with Dr. Leslie Kozak at The Jackson Laboratory, will focus on the mechanism of glycerol 3-phosphate dehydrogenase induction in brown fat tissue (see Kozak, L. et al. Genes and Development 5: 2256-2264 [1991]). Publication of the results of these studies will be expected.

Structure/Function of G Protein-Coupled Receptors
The study, to be carried out in the Department of Molecular Genetics at Pfizer and with Dr. James Krause at the Washington University School of Medicine, will focus on the generation and expression of mutant and chimeric tachykinin receptors. Publication of the results of these studies will be expected. This position requires a scientist with a PhD in Molecular Biology, Cell Biology, Neurobiology or related area and an interest in receptor structure as it relates to ligand binding and signal transduction.

Molecular Immunology
A postdoctoral opportunity, to be carried out in the Department of Molecular Genetics at Pfizer and at Yale University, will study the transcriptional regulation of the human CD8 gene complex both in vitro and in transgenic animals. This work will focus on the role of previously identified transcriptional control regions and potential secondary structure in the developmental regulation of this gene complex. Requires a PhD in Molecular Biology, Immunology or a related area. Publication of results is expected.

These positions include a stipend, medical and dental insurance, and relocation assistance. To be considered please forward your curriculum vitae and the names of three references, indicating position of interest, to: Mr. Kym Goddu, Personnel Associate, Employee Resources, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.

Director - Immunology

Experienced scientist to lead research focused on development of immunodirected therapies using marine toxins including prodrugs, bispecific antibodies and other highly innovative uses for mAbs. Develop new product proposals, contract immunoassay research and grant proposals. Hands on involvement expected. Industry management experience highly desirable. This position offers an opportunity to shape the future of the business and share in its rewards.

Hawaii Biotech offers competitive salary and benefits, extraordinary opportunities for equity participation, and a location with quality of life second to none. Send your application, resume and three references to:

Tom Humphreys, Ph.D.
Vice President
Hawaii Biotechnology Group, Inc.
99-193 Alea Heights Dr.
Honolulu, HI 96701

Central Research
Bringing science to life.
These aren’t Jobs, They’re Opportunities

**Associate Director,**
**Synthetic Organic Chemistry (Box #192-70)**

You will organize and direct programs exploiting proprietary technologies for the creation of chemically diverse compounds for use in discovery research. Initiate and direct synthetic organic chemistry programs targeted at designing and creating novel libraries of building blocks, as well as maintaining inventories through in-house process development or outside contract labs. Your qualifications must include a Ph.D. and a minimum of ten years industrial experience with a versatile, broadly-based, in-depth background in synthetic organic chemistry, medicinal chemistry, molecular modeling, peptide synthesis and peptido-mimetics, as well as knowledge of cellular and molecular biology, and both biochemical and classical pharmacology. Experience preparing patent applications is also important. A background in natural products isolation and structure proof is a plus.

*Openings at other levels also planned.*

**Associate Director,**
**Molecular Pharmacology (Box #WM-1)**

You will direct a program exploiting proprietary technologies for the creation and screening of biologically-based random peptide libraries, and initiate internal therapeutic programs and establish major outside collaborations. Potential products initially arising from this program will include both peptides and modified peptides. In addition to a Ph.D. or M.D./Ph.D., an especially broad background is required encompassing a working knowledge of cellular and molecular biology, biochemical pharmacology and several areas of classical pharmacology. This is a position that demands considerable independence, superior management skills and an outstanding scientific reputation.

**Associate Director,**
**Pharmacokinetics (Box #92-123) and Associate Director,**
**Toxicology (Box #BZ-1)**

Join impressive teams working at the preclinical/clinical interface and collaborate with clinical therapeutics to direct human efficacy studies. You will study the preclinical effects of cytokines and colony stimulating factors as well as other protein products, including antibodies. Begin investigations into the efficacy and safety of a rich variety of novel therapeutics from proteins to peptides to “peptoids” to anti-sense agents, and ranging from cancer to infectious diseases to cardiovascular and central nervous system indications. Required are a Ph.D., M.D., or D.V.M., broad working knowledge of preclinical development and some understanding of regulatory affairs. Experience directing contract studies with outside laboratories and collaborating with the FDA is a clear advantage. Superior writing skills are essential.

*Openings at the Senior Scientist level also available in Pharmacology, Pharmacokinetics, and Toxicology.*
to Improve the Human Condition.

Scientists
Computational & Biophysical Chemistry
(Box # Biochem-1)
We are looking for creative, Ph.D. level individuals with industry experience and skills in molecular modeling, artificial intelligence and/or chemical physics. These positions involve strong collaborations with organic and biological chemists, and cellular and molecular biologists. Experience with quantitative structure activity relationships or G-protein coupled receptors a plus.

Positions at Various Levels
Bio-Organic Chemistry
(Box # Bio-Org-1)
We are looking for individuals with a B.S./M.S. or Ph.D., together with a well-rounded background in chemistry, biochemistry and biology. A synthetic organic chemistry background, as well as a facility with computers and a broad range of equipment are essential. Physics or robotics engineering familiarity a plus.

Positions at Various Levels
Biological Chemistry
(Box # Rabio-1)
Study the molecular basis of angiogenesis and metastasis. You will investigate the receptor binding and processing enzymes of various protein factors and their mimics, including fibroblast growth and tumor necrosis factors. You will also research novel cell adhesion mechanisms, including those of the integrin family, and aid in the development of new ligands for G-protein coupled receptors. We have openings at various levels for outstanding Enzymologists, Receptor Biochemists, Cellular Biochemists, and Molecular Biochemists.

Positions at Various Levels
Molecular Biology
(Box # Ramobio-1)
Participate in the discovery and development of growth factors, cytokines, and their receptors. You will research and develop innovative technologies for improved mammalian, insect and microbial expression. We are looking for dedicated, creative scientists with relevant experience.

Scientist
Biochemical Engineering
(Box # 92-202)
You will design and scale-up purification processes for a variety of recombinant proteins with therapeutic applications, as well as participate in FDA and other regulatory submissions. Necessary are a Ph.D. and 1-3 years experience or an M.S. with 3-6 years in the Biotechnology/Pharmaceutical industry, working knowledge of engineering principles involved in protein purification (e.g. SEC, IEX, affinity separations, etc.) and the ability to scale up these processes to meet GMP production requirements.

Scientists
Protein Chemistry
(Box # Prochem-1)
Play a key role in programs to characterize and develop proteins for therapeutic and vaccine indications. Required are a Ph.D. with demonstrated background in protein purification and characterization, as well as postdoctoral experience.

Positions at Various Levels
High Volume Screening
(Box # Volscr-1)
Individuals must have experience with cell culture, especially baculovirus expression systems, microtiter assays, robotics and computer programming. Experience with receptor, enzyme and second messenger systems, including radiochemical binding assays, also required. Familiarity with fluorescence assays is a plus.

Join us in the beautiful San Francisco Bay Area and experience our cultural, educational and recreational diversity. If you have the dedication, spirit and flexibility to rise to our many challenges, contact us today. Please indicate the corresponding box number of interest and mail/fax your resume/CV to: Chiron Corporation, 4560 Horton St., Emeryville, CA 94608-2916, FAX (510) 601-2504. We are an equal opportunity employer.

CHIRON
Monoclonal antibodies (mAb) to the T cell antigens CD3 and CD4 are effective immunosuppressive agents in vivo and in vitro. The exact mechanism of action is unclear but may include inhibition of lymphocyte activation, T cell depletion, and alteration of lymphocyte recirculation patterns.

The R.W. Johnson Pharmaceutical Research Institute (PRI), conveniently located in central New Jersey between New York City and Philadelphia, has an immediate opening for a post-doctoral fellow to study the mechanisms of immunosuppression and tolerance induction by anti-T cell mAb. Requirements include a Ph.D. in Immunology or a related field, experience in tissue culture, and a desire to work in a team-oriented environment. Experience in models of autoimmune disease desired.

This position provides liberal research support, excellent library facilities, and a good benefits package as part of Johnson & Johnson, the world's largest and most comprehensive provider of health care products. Ours is a smoke-free workplace. Please submit your curriculum vitae with the names of 3 references to: Ms. Gerry Scott-Higgins, Human Resources Dept. 15, R.W. Johnson Pharmaceutical Research Institute, P.O. Box 300, Raritan, NJ 08869-0602. An Equal Opportunity Employer, M/F.

The R.W. Johnson
PHARMACEUTICAL RESEARCH INSTITUTE

Phenomenex

Research Assistant and Postdoctoral Positions in Molecular Biology

One research assistant and two post-doctoral positions in molecular biology are available immediately at the new Research Building of the Children's Hospital Research Foundation in Cincinnati. Research areas include molecular mechanisms of eukaryotic gene regulation and development using yeast and Drosophila as model systems. Candidates for the research assistant position should have a Bachelors degree in Biology, Biochemistry or Chemistry and should be committed for at least 3 years. Candidates for the post-doctoral positions should have a recent Ph.D. or M.D. degree with a strong background and research experience in Biochemistry, Molecular Biology or Genetics. Interested individuals should send curriculum vitae, a brief statement of research interest (post-doctoral applicants only), and names and addresses of three references to:

Dr. Jun Ma
Division of Basic Science Research
Children's Hospital Research Foundation
Elliland and Bethesda Avenues
Cincinnati, OH 45229-2899
Tel: (513) 559-4544
FAX: (513) 559-4317
EOE M/F/D/V

CALIFORNIA INSTITUTE OF TECHNOLOGY

Applications are being accepted for tenure-track faculty positions in Geophysics in the Division of Geological and Planetary Sciences. Both junior and senior academic levels will be considered. Outstanding individuals with a strong commitment to original research and teaching in fields related to geodynamics, seismology, and evolution and structure of the Earth and the terrestrial planets are encouraged to apply. It is expected that these faculty members would carry forward innovative research programs. We are especially interested in individuals whose research naturally links approaches involving existing or new techniques with existing programs in the Division. Strong interactions with research programs covering the full spectrum of the Earth and planetary sciences are encouraged. Areas of interest include:

- Geodynamics: Physics of the solid Earth, employing observational, theoretical or experimental techniques. This may include studies of Earth structure, mantle convection, physics of the core, and mineral physics.
- Seismology: Observational and theoretical seismology with experience in body waves, surface waves, normal modes, inversion and tomography with an interest in the structure and dynamics of the Earth's interior. An ability to use modern digital data is desired.
- A curriculum vitae including a list of publications and a brief description of proposed research activities should be sent to D. J. Stevenson, Chairman, Division of Geological and Planetary Sciences, 170-25, California Institute of Technology, Pasadena, California 91125.

The California Institute of Technology is an Equal Opportunity/Affirmative Action Employer. Qualified women and minority candidates are encouraged to apply.

Research Assistant and Postdoctoral Positions in Molecular Biology

An opportunity is available to join a multidisciplinary group which has recently transferred from the US and is focussed upon the molecular mechanisms and treatments of platelet dependent vascular occlusion. A background in expression systems, microinjection, antisense technology, gene transfer, gene knock out or transgenic technology is desirable. Areas of current work include the analysis of eicosanoid biosynthetic enzymes and cellular signal transduction systems, the structure function relationships of platelet receptors for adhesive macromolecules, the influence of thrombolytic agents on platelet and vascular function, and the development and delivery of novel antplatelet and anti-thrombotic drugs.

Initial inquiries to: Dr. G. A. FitzGerald, telephone no. (+353-1) 307419. FAX: (+353-1) 307074. Please forward six copies of your curriculum vitae with the names of three referees to: the Personnel Officer, University College Dublin, Belfield, Dublin 4, Ireland.

Telephone no. (+353-1) 7067777 ext. 1412. FAX: (+353-1) 2694409.

The closing date for receipt of completed applications is: Thursday, 20 August 1992.

U.C.D. is an equal opportunities employer.

UNIVERSITY COLLEGE DUBLIN
DEPARTMENT OF MEDICINE AND THERAPEUTICS
Mater Misericordiae Hospital
MOLECULAR BIOLOGIST
(Ref: 73/92)

An opportunity is available to join a multidisciplinary group which has recently transferred from the US and is focussed upon the molecular mechanisms and treatments of platelet dependent vascular occlusion. A background in expression systems, microinjection, antisense technology, gene transfer, gene knock out or transgenic technology is desirable. Areas of current work include the analysis of eicosanoid biosynthetic enzymes and cellular signal transduction systems, the structure function relationships of platelet receptors for adhesive macromolecules, the influence of thrombolytic agents on platelet and vascular function, and the development and delivery of novel antplatelet and anti-thrombotic drugs.

Initial inquiries to: Dr. G. A. FitzGerald, telephone no. (+353-1) 307419. FAX: (+353-1) 307074. Please forward six copies of your curriculum vitae with the names of three referees to: the Personnel Officer, University College Dublin, Belfield, Dublin 4, Ireland.

Telephone no. (+353-1) 7067777 ext. 1412. FAX: (+353-1) 2694409.

The closing date for receipt of completed applications is: Thursday, 20 August 1992.

U.C.D. is an equal opportunities employer.

Student Positions in Immunology and Virology

The Pennsylvania State University College of Medicine at Hershey

The Department of Microbiology and Immunology, The Pennsylvania State University College of Medicine, invites applications for tenure-track faculty positions beginning August 1993. Outstanding candidates who are working in immunology and/or virology are sought. We are seeking individuals who are using molecular and cellular approaches to better understand the development, function, or regulation of the immune response. We are also seeking molecular biologists with special consideration given to individuals working with HIV or other retroviruses, tumor viruses, as well as individuals studying the molecular basis of viral pathogenesis. Candidates at the Assistant Professor level are preferred; however, outstanding candidates for positions at the Associate or Full Professor level will be considered. All applicants must have a Ph.D. and/or M.D. degree, postdoctoral research experience and a strong record of research accomplishments. Successful applicants are expected to establish an extramurally funded research program. Availability of research facilities within the new Biomedical Research Building, strong departmental and interdepartmental graduate student training programs, and a world class environment for research within the University. Participation in the Department's graduate and medical student training programs is expected. Applicants must send their curriculum vitae, a statement of research interests and the names of at least three references to: Dr. Richard J. Courtney, Chair, Department of Microbiology and Immunology, The Pennsylvania State University College of Medicine, Post Office Box 850, Department 24, Hershey, PA 17033. The Pennsylvania State University is an Affirmative Action/EQUAL Opportunity Employer. Women and minorities are encouraged to apply.
At NPS Pharmaceuticals, Inc., our novel focus involves more than an outstanding vision of science. It involves the development of talent and leadership. It involves growth...for Scientists like you who are serious about success.

Our exciting and rapidly growing young pharmaceutical company is building its capabilities in medicinal chemistry and drug metabolism/pharmacokinetics in order to accelerate development of small molecule leads in anticipation of clinical trials in the areas of osteoporosis, hyperparathyroidism and stroke.

DEVELOPING IMPORTANT THERAPIES AND CAREERS.

**NPS** combines a novel focus on calcium-related drug targets with a nontraditional program in discovery of natural product drug leads. NPS Pharmaceuticals has developed a unique multidisciplinary program in the pathophysiology and pharmacology of calcium-mediated regulation. The company has built a significant library of novel compounds as well as identified lead compounds for its programs and has developed a strong portfolio of issued and pending patents. As part of its expanding product development efforts, NPS Pharmaceuticals is in the process of building a team of highly talented scientists in the medicinal chemistry and drug metabolism areas.

**MEDICINAL CHEMISTRY**

Opportunities are available in medicinal chemistry at the Ph.D., M.S. and B.S. levels. Candidates should have training in synthetic organic chemistry and an outstanding record of productivity. Responsibilities will include synthesis, structural analysis and purification, and successful candidates will be expected to work closely with colleagues in biology and molecular biology in an interdisciplinary team. Pharmaceutical industry experience is desirable.

**DRUG METABOLISM/PHARMACOKINETICS**

Candidates at all levels will also be considered in the area of drug metabolism and pharmacokinetics. Successful candidates will have responsibilities for the development of analytical methods for drugs and their metabolites in biological fluids and tissues. Additional responsibilities will include design of pharmacokinetic studies, elucidation of metabolic pathways, and oversight of similar work at contract labs. Proven scientific ability and training in pharmacokinetics, pharmacology, analytical chemistry or related discipline is required and industrial experience is preferred.

If you have a desire to make a large impact in a growing company and a creative approach to your discipline that will complement NPS’s novel biological approaches to major disorders, we would like to hear from you. NPS Pharmaceuticals is backed by substantial venture capital investment and is located in the University of Utah Research Park at the foot of the Wasatch mountains. We offer competitive salaries, comprehensive benefits, and a stimulating atmosphere in which to do important work. No calls or agency referrals please. Please send your resume to: Director of Personnel, Reference #MC792, NPS Pharmaceuticals, Inc., 420 Chipeta Way, Salt Lake City, UT 84108. NPS Pharmaceuticals, Inc. is an Equal Opportunity Employer.
COLUMBIA UNIVERSITY DEPARTMENT OF OPHTHALMOLOGY FACULTY AND RESEARCH POSITIONS

The department is seeking outstanding individuals for full-time at the non-tenure PROFESSOR (1), SENIOR RESEARCH SCIENTIST (1) and POSTDOCTORAL FELLOW (1) levels.

Molecular Biology

The department is seeking outstanding individuals for full-time at the non-tenure PROFESSOR (1), SENIOR RESEARCH SCIENTIST (1) and POSTDOCTORAL FELLOW (1) levels.

Molecular Biology

The department is seeking outstanding individuals for full-time at the non-tenure PROFESSOR (1), SENIOR RESEARCH SCIENTIST (1) and POSTDOCTORAL FELLOW (1) levels.

Molecular Biology

The department is seeking outstanding individuals for full-time at the non-tenure PROFESSOR (1), SENIOR RESEARCH SCIENTIST (1) and POSTDOCTORAL FELLOW (1) levels.
Lectureships in Parasitology and Parasite Molecular Genetics
Department of Parasitology

Applications are invited for the following fixed term positions:

**Lecturer in Parasitology (Reference No. 26992)**
To be responsible for undergraduate and postgraduate teaching in one of the following areas of parasitology: a) Parasites of Veterinary Importance; b) Ecology, modelling population biology; c) Protozoology; d) Functional morphology and life-cycles; e) Physiology, nature of parasitism.

**Lecturer in Parasite Molecular Genetics (Reference No. 26892)**
Offered by the Department of Parasitology in conjunction with the Centre for Molecular Biology and Biotechnology.

| The incumbent will be responsible for undergraduate and postgraduate teaching in parasite molecular genetics. Applicants should have knowledge in molecular biology and parasitology and have research experience in the area.
| A demonstrated capacity to attract research funds is desirable for both positions.
| Salary: A$41,000 – $48,688 per annum. Closing date: 16 September 1992 Further information may be obtained from Professor C. Dobson, Head, Department of Parasitology, The University of Queensland, phone +61 7 365-2572, or for the second position: Professor J.S. Matick, Director, Centre for Molecular Biology and Biotechnology, The University of Queensland, phone +61 7 365-4446.
| The University requires an original plus seven (7) copies of an application. One (1) copy only of supplementary materials should be provided. Applications quoting appropriate reference number must be forwarded to the Director, Personnel Services, The University of Queensland, Qld 4072 Australia.

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**NASA**

HEAD OF THE GLOBAL CHANGE DATA CENTER

The Goddard Space Flight Center is seeking candidates for the position of Head of the Global Change Data Center. The incumbent will be responsible for the Earth Observing System (EOS) – Systems Development Office, the Goddard Distributed Active Archive Center (DAAC) Facility, and the Earth Science Data Operations Facility. The incumbent must have demonstrated ability to manage complex data operations and archiving facilities related to Earth or space science research, including translating the needs of scientific data users into operational data systems.

The incumbent must have a bachelors degree (advanced degree preferred) in physical science, mathematics or engineering. He/she must be a recognized authority in science data systems development/operations, computer/data systems technology/techniques development, or Earth or space science data analysis, and have in-depth experience in the processing, analysis and use of spacecraft-acquired Earth or space science data. Knowledge of some disciplines of Earth science is desired.


General Inquiries should be directed to Dianne Hagerty at (301) 286-8319. Technical inquiries should be directed to Robert Price at (301) 286-2239. U.S. Citizenship is required. Equal Opportunity Employer.

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**CIBA-GEIGY**

CIBA-GEIGY Ltd., Pharmaceuticals Division, Research Department, Basel, Switzerland

Applications are invited for a

Postdoctoral Research Position

in inflammation research to study the role of cytokines in inflammation. The successful candidate is expected to participate actively in an interdisciplinary research team and to contribute to its drug discovery efforts.

A solid background in pharmacology or biochemistry and experience in animal handling is required.

The CIBA-GEIGY Research laboratories in Basel, Switzerland, offer an excellent research environment. Publication of research data is encouraged.

Please send your curriculum vitae, a summary of your professional experience, including technical skills, and the addresses of two references under ref. "Science 8277" to Dr. U. Spaeti, CIBA-GEIGY Ltd., Personnel Dept., P.O. Box. CH-4002 Basel, Switzerland.
PROJECT SCIENTIST FOR EDUCATION

The Educational and Public Affairs Office (EPAO) provides the public, news media, and educators with information on the activities and science mission of the Hubble Space Telescope and on astronomical research conducted at the Space Telescope Science Institute. The EPAO disseminates this information via media releases, photographs, educational video tapes, brochures and fact sheets, and other audiovisual materials. EPAO holds periodic open nights and lectures, supports national science writers and teachers workshops, and manages the Institute's Speakers Bureau and Astronomy Visualization (animation) Laboratory. To further science education at the secondary school and college level, the EPAO/ST ScI has been an active partner with Maryland Public Television in developing the Starfinder series, has produced various programs with NASA SELECT, and is a partner with The Johns Hopkins University and Morgan State University in the Johns Hopkins Space Grant Consortium.

ST ScI is seeking an astronomer with both research and educational experience to assist in the activities of the EPAO and to lead future efforts in support of science education. Candidates must possess a Ph.D. or equivalent in Astronomy, Planetary Science, or Physics, and experience in public education. The precise duties and level of the appointment, which may be tenured, will be commensurate with the accomplishments and experience of the candidate. ST ScI supports the research of scientific staff through internal grant, graduate student, and postdoctoral programs. Several workshops and symposia are held each year at the Institute. It is expected that the Project Scientist will continue productive independent research in a field related to the HST science mission.

ST ScI is committed to equal opportunity; women and minorities are strongly urged to apply. Candidates should send a curriculum vitae and bibliography, a brief statement of research and functional interests, and the names of four references to the Personnel Manager at the address below. Applications will be accepted until September 15, 1992.

Space Telescope Science Institute
3700 San Martin Drive
Baltimore, Maryland 21218

EEO/AA/M/F/D/V

BIOCHEMIST/ENZYMologist

Merck Research Laboratories in West Point, a leader in pharmaceutical and biological research, has two excellent antiviral enzymology research career opportunities available in our Biological Chemistry department.

The senior research biochemist/biophysicist position deals with the mechanistic and biophysical studies of enzymes and proteins involved in the replication, infectivity or pathogenicity of human viruses. The focus of our research efforts is the identification of potential drugs and development of approaches to inhibit target enzymes.

Applicants must have a Ph.D. in chemistry/biochemistry with expertise and postdoctoral experience in protein chemistry, kinetics, enzyme structure function analysis. Experience in subcloning and mutagenesis is useful but not required.

The research technician position involves enzyme kinetics and protein purification. Applicants must have a B.S./M.S. Degree in chemistry or biochemistry and 1-2 years of general biochemistry laboratory experience with emphasis on enzyme and protein research studies.

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

Please send curriculum vitae with cover letter to: Personnel Manager, Ad #015, MRL Human Resources, WP42-2, Merck Research Laboratories, West Point, PA 19486.

EOE/AA/VH/Employer.

MERCK
Research Laboratories
AMERICA'S MOST ADMIRED CORPORATION

SANDOZ Postdoctoral Fellowship In Molecular Toxicology

The Division of Pathology and Toxicology of the American Health Foundation has an opportunity for one or two years for a postdoctoral fellow to study molecular effects of pharmaceuticals in relation to their potential hazard to humans. The division has a broad-based program on chemical safety assessment involving research on peroxisome proliferators, antioxidants, antiestrogens, and quinoline antibiotics. The laboratory utilizes in vivo, in vitro, biochemical, and molecular techniques in these studies.

We also provide an excellent opportunity for independent research, within a modern environment in a pleasant Westchester County setting. If qualified, please direct your inquiry to:
Dr. Gary M. Williams, Director of Medical Sciences, American Health Foundation, One Dana Road, Valhalla, New York 10595.
We are an equal opportunity employer m/f/h/v.

American Health Foundation

National Institutes of Health

CHIEF
Sexually Transmitted Diseases Branch

The Public Health Service, National Institutes of Health, National Institute of Allergy and Infectious Diseases (NIAID) is seeking candidates for Chief, Sexually Transmitted Diseases Branch, Division of Microbiology and Infectious Diseases, NIAID, NIH, PHS, Bethesda, Maryland. The Chief is responsible for the daily scientific management of an extramural research program in sexually transmitted diseases. Incumbent’s role involves a broad range of scientific, managerial, and supervisory activities encompassing internal affairs and inter-organization relationships of the Institute in stimulating, developing, operating and coordinating a national program for the development of new detection methods, vaccines, other prophylactic and therapeutic agents, and behavioral approaches for the prevention, treatment, and control of STDs. Incumbent supervises a staff of four professionals and non-professionals. Applicants should possess a Ph.D., M.D., or equivalent degree, and should have demonstrated ability to work with a variety of public and private organizations as well as staff and researchers from multiple disciplines. This is a GM-15 position with a salary range of $64,233 to $83,502 per annum. U.S. citizenship required.

Applicants should send copies of curriculum vitae or application for Federal Employment (SF-171) by August 28, 1992 to:

Dr. Jane Kinsel, Assistant Director
Division of Microbiology and Infectious Diseases, 6003 Executive Boulevard, Room 3A19, Bethesda, Maryland 20892.
Telephone (301) 496-1884, Telefax (301) 480-4528.

NIH is an Equal Opportunity Employer
Applications are invited for the Chair of Biochemistry which will fall vacant on 1 July 1993, following the retirement of Professor T R C Boyde.

Applicants should have strong academic qualifications, a substantial record of research and publications, experience in administration and teaching. Preference may be given to medically qualified biochemists, but possession of a medical qualification is not essential. The subject is taught in the Faculties of Medicine, Science and Dentistry.

The University would prefer to make a permanent appointment, but consideration may be given to applications for appointment for a fixed-term or on secondment for a period of preferably not less than three academic years. An appointee to the Chair may be called upon to become Head of Department.

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

Annual salary (superannuable) will be within the professorial range, of which the minimum is HK$685,620 and the average is HK$848,040 (approx. US$1 = HK$7.70 as at 30 June 1992). At current rates, salaries tax will not exceed 15% of gross income. Housing at a charge of 7.5% of salary, children's education allowances, leave and medical benefits are provided.

Further particulars and application forms may be obtained from Appointments (40819), Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0FF, UK; or from the Appointments Unit, Registry, The University of Hong Kong, Hong Kong (Fax (852) 5592058; E-mail: APPTUNIT@HKUVM1.HKU.HK).

BIological Sciences
Cincinnati Center
Marion Merrell Dow Research Institute, headquartered in Cincinnati, Ohio is seeking creative, team-oriented pharmacologists, a biochemist and a microbiologist/enzymologist. Our research-based company is committed to many areas of drug research including cardiovascular diseases, cancer biology, CNS, and metabolic & inflammatory diseases.

Pharmacologist
Will perform electrophysiological experiments, using whole-cell and single channel patch clamp techniques to evaluate experimental compounds on ion channel activity in single cells. The ideal candidate will have:
• BS/MS or equivalent in a biology related area
• Delicate hand work skills are essential
• Laboratory experience in electrophysiology or cardiac research is preferred
• Working knowledge of electronics and personal computers is useful
Please respond to Job Code 07084.

Pharmacologist
Assists in designing and performing studies for the evaluation of novel cardiovascular agents. Requires in vivo experience and general biochemical assays. The ideal candidate will have:
• BS/MS in biology or equivalent
• 2 or more years of research experience
• Working knowledge of cardiovascular system
• Excellent oral and written communication skills
Please respond to Job Code 03911.

Biochemist
Requires experience in ligand-protein interaction or protein function and the ability to use these skills to design highly sensitive and selective assays for drug discovery. Also must have the ability to creatively work both independently and in collaboration with chemists and biologists on site to rapidly discover leads for further chemical synthesis. The ideal candidate will have:
• Ph.D. in biochemistry, biology or equivalent, plus 2 years post-doctoral experience
• Experience in receptor or enzyme structure and function or second messenger assays
• Excellent oral and written communication skills
• Understanding of molecular biology and computer modeling of proteins desirable
Please respond to Job Code 00151.

Microbiologist/Enzymologist
Requires involvement in the application of enzyme/whole cell biotransformations for the synthesis of new pharmaceuticals. The ideal candidate will have:
• Ph.D. in microbiology or related discipline
• Post-doctoral or equivalent industrial experience is preferred
• A working knowledge in microbial screening, pathway analysis and molecular biology
• Excellent oral and written communication skills
Please respond to Job Code 03270.

Excellent compensation includes bonuses, 401(k), and stock options. You’ll also find an affordable yet cosmopolitan lifestyle in Cincinnati. Please send resume, 2-3 references, and salary history to: Marion Merrell Dow Inc., Staffing Department. Job Code: 07084, 03911, 00151 or 03270, P.O. Box 9627, Kansas City, MO 64134. Equal Opportunity Employer.

Roche
PhD Positions in Molecular Biology
In our Department of Pharmaceutical Research — New Technologies are several post-doctoral positions available. The positions require a Ph.D. and experience in Molecular Biology. Applications are invited from individuals interested to work in a basic research environment to study:
—Transcriptional control mechanisms in eukaryotic cells
—Receptor-ligand interactions
—Eukaryotic Expression Systems.

The positions are available immediately.
Please send a curriculum vitae, any representative reprints and a summary of research interests to the Personnel Officer, Dr. Suzanne Gräzer, quoting reference Science—94/92/Grä.
F. Hoffmann-La Roche Ltd, CH-4002 Basel

NASA
HEAD, GODDARD DISTRIBUTED ACTIVE ARCHIVE CENTER
The Goddard Space Flight Center is seeking candidates for the position of Head of the Goddard Distributed Active Archive Center (DAAC), an operational data center for the international Earth science community. The incumbent must have demonstrated ability to manage data archiving facilities and to define and implement Earth science mission data requirements for archiving and distribution while working closely with the Earth science community both within and outside of NASA. The incumbent must have a bachelors degree (advanced degree preferred) in physical science, mathematics or engineering and indepth experience in the processing and analysis of spacecraft-acquired Earth science data.
General inquiries should be directed to Dianne Hagerty at (301) 286-3319. Technical inquiries should be directed to Dr. Robert Price at (301) 286-2239. U.S. Citizenship is required. Equal Opportunity Employer.

MARION MERRELL DOW INC.
The Biology Department at Brookhaven National Laboratory has positions available for:
(i) A MOLECULAR BIOLOGIST with experience in DNA cloning, sequencing and expression to conduct research on regulatory enzymes associated with photosynthetic membranes. Previous experience with in vitro mutagenesis and a strong interest in protein structure/function relationships would be advantageous. (ii) A PROTEIN BIOCHEMIST with protein purification, peptide analysis and analysis of terminal covalent modifications to conduct research on proteins associated with the stromal surface of the thylakoid membrane. Experience with phosphoproteins would be desirable.

Candidates should forward a curriculum vitae, a list of publications and the names and addresses of three references to: Dr. Geoffrey Hind, Biology Department, Brookhaven National Laboratory, Associated Universities, Inc., Upton, Long Island, NY 11973. Equal Opportunity Employer M/F/D/V.

Sphinx Pharmaceuticals Corporation is a rapidly growing, Durham-based biopharmaceutical company working in the area of lipid second messengers and signal transduction. Continued growth has created an immediate opening for a

PROTEIN CHEMIST

Our Protein Chemistry section is responsible for diverse activities ranging from basic discovery research on lipid-mediated intracellular enzymes to large-scale purification of recombinant proteins. While interacting with several research teams within the company, the selected individual will be responsible for managing a section within our Division of Biochemical Research.

The successful candidate must have a Ph.D. in Biochemistry, or a related area, with a minimum of 3 years postdoctoral experience in protein purification and protein characterization. Experience in protein chemical modification and sequence determination would be helpful.

Sphinx Pharmaceuticals offers career advancement opportunities, competitive compensation, comprehensive benefits and relocation assistance, and excellent living conditions in the Research Triangle Park area of North Carolina. For confidential consideration, please forward your resume, with references, to: Sphinx Pharmaceuticals Corporation, Position #197, P.O. Box 52330, Durham, NC 27717. An Equal Opportunity Employer.
POSTDOCTORAL POSITIONS: Two positions available immediately to study the regulation and function of certain gene products and protein kinases underlying endothelial smooth muscle cell interactions. The projects involve characterization of transcriptional mechanisms controlling the expression of cytokines and related genes by oxygen tension. Candidates with strong background in molecular/cellular biology will be preferred. Please send curriculum vitae and names of three references to: Dr. John P. Roche, Children's Hospital, Harvard Medical School, Boston, MA 02115. Equal Opportunity Employer.

NEUROBIOLOGY RESEARCH ASSOCIATE
A postdoctoral research associate position is immediately available to study the molecular and cellular biology of receptor tyrosine kinases. The project involves characterization of transcriptional and post-translational mechanisms controlling the expression of receptor tyrosine kinases under various physiological conditions. Experience in molecular biology, cell biology, and tissue culture techniques is essential. Send curriculum vitae and three letters of reference to: Dr. Stephen M. Strittmatter, The Salk Institute, 10010 North Torrey Pines Road, La Jolla, CA 92037. Equal Opportunity Employer.
We have immediate openings for energetic research scientists in Selectide Corporation's Departments of Biochemistry and Pharmacology. The scientists hired will play a major role in the discovery of peptides that are of pharmaceutical interest for treatment of human diseases using the new approach of random peptide libraries (Lam et al., see Nature 354 p. 82-84). Preference will be given to candidates who have completed 2 or more years of postdoctoral research in the following areas: Department of Biochemistry — enzymology, proteinase function, peptidomimetic chemistry, with focus on thrombosis-hemostasis, the complement system, or connective tissue degradation. Department of Pharmacology — Receptor-ligand interactions, and receptor signaling mechanisms, with focus on molecular approaches. The Company offers excellent career potential for creative scientists interested in participating in the development of a dynamic new biotechnology company. Selectide's headquarters and research laboratories are located in Tucson, Arizona. Applicants should submit a cover letter to either Biochemistry or Pharmacology Department, including the names of two professional references and a copy of their curriculum vitae and biosketch by August 15, 1992 to:

Selectide Corporation
10900 N. Stallard Place, Suite 122
Tucson, AZ 85737
Fax (602) 579-6283

Scientists
Immmunoassay Development

Genentech, Inc., an internationally recognized leader in the field of biotechnology, is currently seeking Scientists to work as part of multidisciplinary teams developing immunoassays for the research and development of therapeutic recombinant proteins. We also have active R&D programs in cardiovascular biology, immunology, endocrinology and neurobiology.

We require a PhD in Biochemistry, Molecular Biology, Immunology, or a related discipline and 2+ years' postdoctoral experience.

We offer an excellent salary and benefits package. For immediate consideration, please send your resume to Genentech, Inc., Human Resources, Dept. YSTC, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal opportunity employment. Women and minorities are encouraged to apply.

Genentech, Inc.
Supragen, Inc., an emerging Denver-based biotechnology company, is seeking a distinguished group of senior scientists and research associates. The company's scientists will be dedicated to vaccine and drug discovery/development based on the role of superantigens in immune/inflammatory disorders, infectious diseases and cancer.

**SENIOR SCIENTISTS/POSTDOCTORATES**

Supragen is seeking scientists with PhDs and/or MDs; senior scientist applicants must have at least two years of postdoctoral experience. Candidates should have documented ability to conduct independent research and have a strong background in at least one of the following areas: molecular biology; protein chemistry; immunology; infectious disease; or virology.

**RESEARCH ASSOCIATES**

The company requests applicants have BS or MS degrees and laboratory experience. Backgrounds in immunology, molecular biology, or biochemistry desired.

Supragen offers competitive salaries and benefits as well as the opportunity to work in a dynamic, highly motivating and interactive scientific environment. For consideration, please submit your curriculum vitae to: John Kappler, Philippa Marrack and Brian Kotzin, Recruitment Effort, Supragen, Inc., 3000 East Colfax Ave., Suite 311, Denver, CO 80206.

**VICE PRESIDENT AND DIRECTOR GEORGIA TECH RESEARCH INSTITUTE**

Nominations and applications are invited for the position of Vice President and Director of the Georgia Tech Research Institute (GTRI). The GTRI Vice President reports to the Executive Vice President of Georgia Tech.

GTRI is a nonprofit, client-oriented organization with significant and expanding interactions with Georgia Tech's academic faculty and students. The GTRI Director will be responsible for the technical and administrative leadership of GTRI, enhancing the image of GTRI with outside funding sources, developing new funding sources, expanding Georgia Tech's research and development capabilities and promoting increased integration with Georgia Tech's academic programs. This position will be responsible for the management and supervision of a staff of approximately 1,500, which includes more than 600 full-time researchers, and a research program of over $100 million annually. GTRI is internationally recognized for its expertise in areas such as aerospace science and technology, artificial intelligence, computer science and technology, electronic systems, electronic warfare, environmental science, infrared and electro-optics, manufacturing research, materials science, radar, signature control technology, and threat systems development.

The mission of GTRI includes public service, and outreach and technology transfer across a broad spectrum of scientific and technological endeavors in addition to research and development.

Candidates for the position should hold a degree in Engineering or Science, with a strong preference for a doctoral degree. The successful candidate should have a distinguished record of management and development of research, strategic planning, human resource development and Total Quality Management.

Nominations and applications should be sent to:

Dr. Gary Poehlein, Office of Interdisciplinary Programs, Code SCI83, Georgia Institute of Technology, 400 Third Street, Centennial Research Building, Room 282, Atlanta, GA 30332-0370. Telephone (404) 894-4826.

Review of applications will begin as soon as they are received and continue until the position is filled. Georgia Institute of Technology is a part of the University System of Georgia and is an Equal Opportunity Employer.

**RESEARCH SCIENTISTS TOXICOLOGY AND METABOLISM**

Midwest Research Institute (MRI), a leading contract research organization with major research activities in the health sciences, has positions available in the Life Sciences Department.

**SENIOR PRODUCT/DRUG DEVELOPMENT SCIENTIST**

Responsible for the conduct of pharmacokinetics and metabolism studies to support product/drug registration.

**SENIOR TOXICOLOGIST**

Responsible for the conduct of animal toxicity studies. DABT or board eligible.

Successful candidates should possess PhD in pharmacology, toxicology, biochemistry, or other related discipline or DVM with minimum of 4 years experience in related field. Experience as study director/principal investigator is required and experience with submissions to government regulatory agencies is desired.

**STAFF SCIENTIST**

Will participate in pharmacokinetics, toxicology or metabolism studies. Requires BS or MS in relevant scientific discipline with minimum of 3 years experience in related field.

MRI offers competitive compensation, a comprehensive benefits package, paid relocation and a unique environment to meet personal challenges and enhance career growth. If you are interested in joining a talented team, please fax or send resumes to Jill M. Skaggs, Dept. DWA at:

**MIDWEST RESEARCH INSTITUTE**

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Neuropharmacologist

Molecular Devices is looking for a Neuropharmacologist to support its new silicon biosensor-based microphysiometer system Cytosensor. Early versions of the system have been used for pharmacodynamic studies of drug agonists and antagonists on a range of cells with native or transfected receptors.

Responsibilities include designing and teaching training workshops at MDC, presenting seminars at outside sites, and maintaining close scientific relationships with our most innovative customers and academic collaborators. Additionally, you will troubleshoot and oversee the evaluation of cells and effector agents sent to us in the course of pre-sales activities.

A PhD and a minimum of three years' experience in pharmacodynamics in a major drug company, with hands-on experience in second messenger assays and/or electrophysiology, are required.

Molecular Devices offers a competitive compensation and benefits package. Please address inquiries plus curriculum vitae to: Dr. Gillian Humphries, Molecular Devices Corporation, 4700 Bohannon Drive, Menlo Park, CA 94025. FAX: (415) 322-2069, EOE.

THE REPLIGEN REPORT

Cambridge, Massachusetts, home to Harvard and MIT and just across the Charles River from Boston, is the site of one of the country’s largest concentrations of biotechnology firms. Repligen, located in East Cambridge, is a major player in this industry and area and has always been noted as a company on the leading edge in research committed to healthcare. Over the past year, results from our research have allowed us to identify product candidates for the prevention and treatment of AIDS and for the treatment of cancer and acute inflammation. In addition to several new research projects in the inflammation area, we have also recently begun clinical trials on our anticancer compound. The years ahead promise many new and exciting challenges for people seeking a research environment that rewards initiative and recognizes achievement. If you’re looking for a biotech company that’s going places, join us today.

Associate Scientist

This person will be responsible for fully characterizing new product candidates, especially monoclonal antibodies; analyzing process steps, recommending improvements as necessary and supervising a Research Technician. A Ph.D. in Chemistry/Biochemistry or related area with up to 2 years of post doctoral experience. Expertise required in various areas of protein chemistry with especially strong protein analytical background.

Research Scientist

We seek a candidate to oversee the HIV vaccine preclinical development group; coordinate the evaluation of new immunogens, including live vectors and protein/peptide subunits; and implement capabilities in cellular immunology. A Ph.D. plus post doctoral expertise in cellular immunology, cell biology or biochemistry along with strong organizational and interpersonal skills.

Repligen offers competitive salaries, benefits and equity participation. Please submit or FAX a cover letter, resume and references to: Joan Curtice, Repligen Corporation, One Kendall Square, Building 700, Cambridge, MA 02139. FAX (617) 494-1786. An Equal Opportunity Employer, M/F/D/V.
POSITIONS OPEN

POSTDOCTORAL/RESEARCH ASSOCIATE

Position available for cytogeneticist to study interactions between DNA and carcinogenic and chemotherapeutic agents. Requires experience in DNA chemistry. DNA adduct quantitation by immunoassay, chemical-DNA localization (in cells, tissues and chromosomal preparations) and the biochemistry and cytogenetics of chromosomal abnormalities and cell culture. Salary range: $40,500 to $44,500. Send curriculum vitae and names of three references to:

Dr. Miriam C. Poirier
NCI, Building 37, Room 3B12
Bethesda, MD 20892

CELL BIOLOGIST. An innovative, growing, pharmaceutical company is seeking a cell biologist (Ph.D.-level) with experience and interest in cell-cell and bacterium-cell adhesion. Candidates should be (1) experienced in cell and tissue culture methods, (2) capable of designing, initiating, and evaluating research programs, and (3) looking for a novel and exciting scientific position. Please send résumé and names of three references to:

Ms. Stacy Bardol, Personnel Manager
Neose Pharmaceuticals, Inc.
10455 South 166th Street
Hornsho, PA 19044

ENVIRONMENTAL MODELER ATMOSPHERIC SCIENTIST

AECL, Research, Canada's leading agency for environmental research related to nuclear energy, has two immediate openings:

- Environmental transfer modeler with experience in uncertainty analysis, model validation, dose assessment and field/laboratory studies of radiouclide transport.
- Atmospheric scientist with experience in microclimatology and short-range dispersion modeling.

Successful applicants will join a group of 35 staff in the Environmental Research Program. Programs include theoretical, experimental, and applied research on contaminant transport and modeling. Positions are open to postdoctoral, junior or senior staff. Applicants should send curriculum vitae and the names of three referees by August 14, 1992, by e-mail: (Cernett@NV.ECRL.AEC.LCA), FAX: (613) 584-1221, or mail to: Dr. R.J. Cernett, Environmental Research, AECL Research, Chalk River Laboratories, Chalk River, Ontario, Canada K0J 1J0.

IMMUNOLOGIST (RECENT Ph.D.)

For immunoassy development and enzyme/antibody conjugation (urease). The position will be available September 15. Applicants should submit full curriculum vitae and three references to: Diane Kurtz, Manager/Administration, Hawaii Biotechnology Group, Inc., P.O. Box 1057, Honolulu, HI 96871.

Equal Opportunity Employer.

METALLURGICAL ENGINEER. Participate in research and development activities related to manufacturing processes for tantalum metal powder. Conduct experiments using Electron Microanalysis (EPMA), Scanning Electron Microscopy (SEM) and x-ray Diffraction. Four years of college, B.S. degree in Physics. Two years of experience in the position or four years as Production Manager and/or Research Director and/or Research Associate required. Experience in related occupation, with participation in manufacture and related research and development activities of tantalum metal powder; two years of experience also required as Research Associate with responsibility for conducting research on semiconductor materials utilizing Electron Microanalysis (EPMA), Scanning Electron Microscopy (SEM) and x-ray Diffraction to identify initial phase diagram and morphology between metal powders and GaAs. Forty hours per week; 9:00 a.m. to 5:00 p.m.; $36,000 per year. Must have proof of legal authority to work permanently in the United States.

Send résumé to: Illinois Department of Employment Security, North State Street—3 South Chicago, IL 60605. Attention P. Kula, Reference Number V-IL-5331-K. NO CALLS. AN EMPLOYER PAID AD. SEND TWO COPIES OF RESUME.

POSITIONS OPEN

RESEARCH TECHNICIAN: Retinol-binding protein by HPLC; affinity column/low temperature chromatography, peptide mapping, sequencing, and in vitro translation. Must have minimum M.S. in Organic Chemistry or B.S. with one year of graduate research and teaching assistant experience; be thoroughly familiar with, and proficient in, affinity column/low temperature chromatography, NMR, HPLC, Mass Spectrometry, and F/FIR; as well as present proof of legal authority for full time employment in the United States.

Monday to Friday, 9:00 a.m. to 5:00 p.m. Salary: $1,559.00 per month.

Those interested and qualified, send résumé, or apply in person, to: Georgia Department of Labor, 2811 Lakeway Dr., Suite 700, Atlanta, GA 30318 or to the nearest Georgia Job Service Center. Job Order #GA 5556087. Employer paid ad.

RESEARCH SCIENTIST to design, perform, evaluate and report biotechnologically focused experimentation interfacing immunological methods to electrochemical systems. Course of experimentation will consist of evaluating fluid dynamics of electrochemical flow systems, simulate electrochemical mechanisms using BASIC, Fortran and C languages, design and construction of potentiostats, microelectrodes and flow systems, simulate electrochemical mechanisms using BASIC, Fortran and C languages, design and construction of potentiostats, formulation and testing of fabrication of electrochemical cells, and implementation of electrode surface modifications (e.g., electro-polymerization), synthesis and spectrophotometry. Ph.D. in Chemistry with two years of experience as a Research Scientist/Electrochemistry required. Previous experience must include two years of hands-on experience evaluating fluid dynamics of electrochemical flow systems, simulation of electrochemical mechanisms using BASIC, Fortran and C languages, design and construction of potentiostats, formulation and testing of fabrication of electrochemical cells, and implementation of electrode surface modifications (e.g., electro-polymerization). Forty hours per week; 8:30 a.m. to 5:30 p.m., Monday to Friday. Salary: $48,000.00 per year. Send résumé to: Dr. Axel Hintze, Department of Chemistry, E.C.L., 1530 East Jefferson Street, Rockville, MD 20852. Equal Opportunity Employer.

SUGEN, Inc.

Sugen is a biopharmaceutical development company located in the San Francisco Bay Area. Sugen was formed around the research teams of Dr. Axel Ulrich at the Max-Planck-Institut in Munich and Dr. Joseph Schlesinger at the Department of Pharmacology at New York University Medical Center. Sugen's drug development strategy is based on the identification and development of proprietary targets for therapeutic intervention with primary emphasis on the tyrosine kinase and phosphatase receptor systems. With the development of our lead programs accelerating, we are now looking for SCIENTISTS interested in these novel approaches. Applicants should have a Ph.D. in Pharmacology/Experimental Pathology. Applicants should apply to Sugen, Inc., 5150 Hamilton Drive, Redwood City, CA 94063-4720.

MEETINGS

STRUCTURES, CONFORMATIONS AND INTERACTIONS OF NUCLEIC ACIDS

Clinical Center, NIH, Bethesda, Maryland

November 18 to 20, 1992

Conference sponsored by the Fogarty International Center and the National Cancer Institute

Preregistration sponsored. For applications and information write: Dr. David Feldman, Fogarty International Center, Building 16, NIH, Bethesda, MD 20892. Telephone: (301) 496-2968; FAX: (301) 496-8496.

ANNOUNCEMENTS

RESEARCH GRANTS

The American Health Assistance Foundation invites applications from researchers at non-profit institutions for the following programs:

- Alzheimer's Disease Research: grants of up to $100,000 per year for up to two years (renewable) for research into the causes and treatment of Alzheimer's disease. Application deadline: November 2, 1992.
- Glaucoma Research: grant awards of up to $25,000 per year for up to two years (renewable) for research into the causes and treatment of glaucoma. Application deadline: November 30, 1992.
- National Heart Foundation Grants (formerly Coronary Heart Disease Research): starter grants of up to $15,000 per year for one year (renewable) for research into the cause and treatment of stroke or cardiovascular disease. To qualify for a starter grant, the investigator must be an assistant professor (or equivalent) beginning an independent research career. Application deadline: November 2, 1992.

For information and application forms contact: Research Grants Manager, American Health Assistance Foundation, 15825 Shady Grove Road, Suite 140, Rockville, MD 20850, telephone: (301) 948-3244.

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