100% CFC-Free Refrigerants and Insulation Non-Flammable Non-Toxic

Automatic tablet counting and packing machines
Based on microcomputer advances, these compact units enable accurate tablet dispensing.

SANYO Medical & Laboratory Equipment

Laboratory ware jet washers
Sanyo's new washing technology for scientific use is based on jet water action and microcomputer control.

A wide range of advanced Sanyo technology in support of medicine and research.

Using state-of-the-art electronics technology and control systems, Sanyo makes it possible to perform a wide variety of environmental and medical experiments that are vital for biotechnology research. Our advanced technology used in compressors and ultra-low temperature freezers enables long-term preservation of cells, bacteria, bone marrow, and other materials essential to the advancement of science. Thanks to the use of CFC-free technology, Sanyo offers an array of outstanding products that are safe for the environment.
ASSISTANT PROFESSOR—BIOLOGY. The Biology Department at Baylor University invites applica-
tions for a tenure-track Assistant Professor position to begin fall 1994. La Salle (located in northwest Philadelphia) is a private, Catholic affiliated, liberal arts, primarily undergraduate university that has already established excellence in teaching. REQUIREMENTS: Ph.D. in Biology; ability and interest to teach two or more of the following: Anatomy & Physiology, Histology, Developmental Biology; ability and interest to teach introductory courses for majors and/or non-majors; proven experience in teaching and advising undergraduate students as well as in research and graduate students. La Salle offers a summary of research interests and goals, and three references by May 31, 1994, to: Dr. Paula Sundstrom, Search Committee, Biology Department, La Salle University, 1900 West Olney Avenue, Philadelphia, PA 19141-1199. La Salle is an Equal Opportunity/Affirmative Action Employer and Educator.

MOLECULAR MICROBIOLOGIST BAYLOR UNIVERSITY

Tenure-track, Assistant or Associate Professor position beginning August 1994. We seek an individual with the ability to apply tools of molecular biology to fundamental questions in genetics, ecology, or evolutionary biology. Baylor University is committed to excellence in undergraduate education. College teaching is a priority. In this position must have strong interests in teaching and interacting with undergraduate students as well as graduate students. Duties: Develop courses in molecular biology, biotechnology, and area of specialty; participate in general biology sequence; maintain a strong research program utilizing molecular approaches and involving graduate and undergraduate students; contribute to growing graduate program in genetics, ecology, and evolution. Ph.D. required, postdoctoral experience preferred. Send letter of application, curriculum vitae, statement of research interests, and a brief statement of teaching philosophy to: Dr. Ben Pierce, Search Committee Chair, Department of Biology, Baylor University, Waco, TX 76798-7388. Telephone: 817-755-2911. FAX: 817-755-2906. E-mail: BEN.PIERCE@BAYLOR.EDU. The deadline for receipt of applications is March 31, 1994. Baylor University is an Affirmative Action/Equal Opportunity Employer and encourages applications of women and minorities. The University is an equal opportunity and affirmative action employer.


MOLECULAR TOXICOLOGIST

The Department of Community and Environmental Medicine at the College of Medicine, University of California, Irvine, seeks, subject to funding, to fill a POSITION IN MOLECULAR TOXICOLOGY. Applicants should have a Ph.D. in biochemistry, molecular biology with postdoctoral training in toxicology, and should have a strong interest in conducting research in molecular toxicology with special emphasis on cloning genes for protein expression in animal models for early detection of ovarian cancer in humans. The position to be filled is ASSISTANT ADJUNCT PROFESSOR and is to be funded by the applicant’s own research grant(s). In addition to conducting basic research, academic duties include teaching in the Graduate Program in Environmental Toxicology. College of Medicine. Qualified applicants should send their applications including curriculum vitae, summary of research and teaching plans, and three letters of reference to: Daniel B. Menzel, Ph.D., Chair, Department of Community and Environmental Medicine, University of California, Irvine, CA 92717-1825. UCI: Rooted in education, enriched by diversity.

Positions Open
HAMPDEN-SYDNEY COLLEGE

The Biology Department invites applications for a non-continuing one-year appointment as VISITING ASSISTANT/ASSOCIATE PROFESSOR beginning August 15, 1994. The successful applicant will teach introductory Biology lectures and laboratories and will offer an advanced course in an area of interest that is presently represented in the department are Microbiology/Botany, Ecology, Cellular/Developmental, Vertebrate Anatomy and Physiology, Molecular/Genetics and Paleobiology/Invertebrate Zoology. Candidates must demonstrate interest or have experience in undergraduate teaching and have a Ph.D. expected by August 1994. A letter of application, a statement of interest (no longer than one page), a résumé and three letters of reference should be sent to: William A. Shear, Chairman, Department of Biology, Hampden-Sydney College, Hampden-Sydney, VA 23943 by March 10, 1994. Application materials received after this date will not be considered. FAX: (804) 223-6374. Equal Opportunity Employer/Affirmative Action.

ASSISTANT PROFESSOR, PLANT PATHOLOGY. Applications are invited for a position in pathology that will emcompass a variety of fungous pathogens. A Ph.D. with strong background in Plant Pathology and Genetics is required. The position is a joint research and teaching position in a tenure-track faculty position in the Department of Plant Pathology, University of Georgia, Athens. Teaching responsibilities include: Undergraduate students and graduate students and the opportunity to develop a course in a specialty area. The successful candidate is expected to develop a research program that will involve genetic approaches to study fungal plant pathogens and host-pathogen interactions. This position will be available July 1, 1994. Applicants should submit by May 1, 1994, a letter that includes research interests, curriculum vita, transcripts, four letters of reference and reprints of last five years publication to: Dr. W. E. Garrett, Department of Plant Pathology, University of Georgia, Athens GA 30602—7274. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.

ASSISTANT/ASSOCIATE PROFESSOR: The Department of Pathology, Medical College of Georgia, is seeking a Ph.D. with postdoctoral experience in molecular pathology and a commitment to scholarly achievement. The individual will have primary responsibility in the Section of Anatomic Pathology for overall operation of molecular diagnostics, particularly in gene rearrangement studies. The successful candidate will complement the research in the department and develop a productive research program. Salary and benefits will be commensurate with experience and rank. Candidates should submit a CV, a list of publications, 3-5 references to: Dr. F. W. Chandler, Department of Pathology, Medical College of Georgia, Augusta, GA 30912—3605; FAX: (706) 794-0958.

MCG IS AN EQUAL OPPORTUNITY EMPLOYER. WOMEN, MINORITIES AND THE DISABLED ARE ENCOURAGED TO APPLY.

FACULTY POSITION IN IMMUNOLOGY

Applications are invited for a full-time tenure-track position at the ASSISTANT/ASSOCIATE PROFESSOR level in the Department of Biological Sciences starting August 15, 1994. The position requires two years of postdoctoral training, a productive record of research, and the ability to interact collegially. Appointment at the Assistant level requires a record of funded research. The Department of Biological Sciences has three research areas of focus: General Molecular Biology, Cell Culture, and Protein Analysis. Deadline for applications is March 15, 1994, or the first of the month until the position is filled. Applicants should submit curriculum vitae, reprints of key publications, a statement of current and future research plans, and three names of references to: Chair, Department of Biological Sciences, Department of Biological Sciences, The Wichita State University, Campus Box 26, Wichita, KS 67260—0026. Equal Opportunity/Equal Access Employer.

FACULTY POSITION

Human Gene Therapy

A tenure-track faculty position at the Assistant Professor level is available in an interest area of immunology that is currently represented in the Department of Cell Biology and Anatomy. This is a full-time, non-continuing one-year position. The successful candidate will teach introductory Biology lectures and laboratories and will offer an advanced course in an area of interest that is presently represented in the department are Microbiology/Botany, Ecology, Cellular/Developmental, Vertebrate Anatomy and Physiology, Molecular/Genetics and Paleobiology/Invertebrate Zoology. Candidates must demonstrate interest or have experience in undergraduate teaching and have a Ph.D. expected by August 1994. A letter of application, a statement of interest (no longer than one page), a résumé and three letters of reference should be sent to: William A. Shear, Chairman, Department of Biology, Hampden-Sydney College, Hampden-Sydney, VA 23943 by March 10, 1994. Application materials received after this date will not be considered. FAX: (804) 223-6374. Equal Opportunity Employer/Affirmative Action.

FACULTY POSITION

Marine Science

The University of Hawaii at Manoa invites applications for a tenure-track appointment as ASSISTANT PROFESSOR beginning in August 1994. The successful candidate will have a Ph.D. in marine science and experience in teaching and research. A letter of application, a statement of research interests, and three letters of reference should be sent to: William A. Shear, Chairman, Department of Biology, Hampden-Sydney College, Hampden-Sydney, VA 23943 by March 10, 1994. Application materials received after this date will not be considered. FAX: (804) 223-6374. Equal Opportunity Employer/Affirmative Action.

FACULTY POSITION IN FOREST GENETICS

MICHIGAN STATE UNIVERSITY

The Department of Forestry is seeking applicants for a tenure-track ASSISTANT/ASSOCIATE PROFESSOR of forest genetics position (70% research, 30% teaching). The successful candidate is expected to develop a productive research program in plant genetics, population genetics, molecular, physiological, or ecological genetics, teach one-semester courses in forest genetics at the graduate and undergraduate level, be active in research coordination, student advising, and contribute to the interdepartmental Plant Breeding and Genetics Program. Candidates must have a Ph.D. in plant or forest genetics. The position includes involvement in forest forestry. A commitment to excellence in research and teaching, an interest in working with woody plants, and knowledge of current research technologies in plant genetics is particularly important. Salary is negotiable, commensurate with experience. A letter of application and curriculum vitae, statements of research and teaching experience, and evidence of teaching effectiveness are requested. At least three letters of recommendation are requested. Applications should be submitted to: Barbara M. Armstrong, Department of Forestry, Michigan State University, East Lansing, MI 48824—1222. Michigan State University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minority candidates.

FACULTY POSITION

Human Gene Therapy

A tenure-track faculty position at the Assistant Professor level is available in an interest area of immunology that is currently represented in the Department of Cell Biology and Anatomy. This is a full-time, non-continuing one-year position. The successful candidate will teach introductory Biology lectures and laboratories and will offer an advanced course in an area of interest that is presently represented in the department are Microbiology/Botany, Ecology, Cellular/Developmental, Vertebrate Anatomy and Physiology, Molecular/Genetics and Paleobiology/Invertebrate Zoology. Candidates must demonstrate interest or have experience in undergraduate teaching and have a Ph.D. expected by August 1994. A letter of application, a statement of interest (no longer than one page), a résumé and three letters of reference should be sent to: William A. Shear, Chairman, Department of Biology, Hampden-Sydney College, Hampden-Sydney, VA 23943 by March 10, 1994. Application materials received after this date will not be considered. FAX: (804) 223-6374. Equal Opportunity Employer/Affirmative Action.

ASSISTANT PROFESSOR OF BIOLOGY, SCHOOL OF SCIENCE AND ENGINEERING TECHNOLOGY

The University of Southern Indiana invites applications for a tenure-track faculty position beginning in August 1994. Individual must have abilities to teach in one or more of the following areas: general botany, aquatics biology or environmental science. Other duties include student advising and community service.

The successful candidate will have a Ph.D. by August 1994; preference will be given to candidates with demonstrated abilities and interest in undergraduate teaching and have teaching experience at the undergraduate level. A letter of application, a statement of teaching philosophy and research interests or have satisfactory evidence of teaching abilities and statement of teaching philosophy and research interests by March 15, 1994. Dr. Jackson L. Martí, Chair, Department of Biological Sciences, University of Southern Indiana, 8600 University Boulevard, Evansville, IN 47712. Affirmative Action/Equal Opportunity Employer.

VIROLOGY/MICROBIOLOGY—The Department of Microbiology and Immunology at the Uniformed Services University of the Health Sciences invites applications for appointment as a full-time, tenure-track ASSISTANT PROFESSOR. Review of applications will begin in February 1994 and continue until the position is filled. The position is available beginning July 1994. PhD degree and postdoctoral research experience in virology are required. Responsibilities include development of a productive research program and training students in the area of virology. Salary is negotiable and commensurate with experience. Submit curriculum vitae and bibliography, description of research interests and proposed research program, reprints of major publications, and names and addresses of three references to: Randall K. Holmes, M.D., Ph.D., Professor and Chair, Department of Microbiology and Immunology, c/o Civilian Human Resources Management Division, Uniformed Services University of the Health Sciences, 4301 Jones Bridge Road, Bethesda, MD 20814—7499.

The University of Hawaii at Manoa is an Equal Opportunity/Affirmative Action Employer with a strong commitment to racial, cultural, and ethnic diversity.

NEUROBIOLOGIST

The Department of Anatomy and Neurobiology, College of Medicine, the University of Tennessee, Memphis, is seeking candidates for tenure-track ASSISTANT PROFESSOR, ineligible for tenure-track position. Candidate must show evidence of strong research achievement in neuroscience. In addition to a minimum of three years of postdoctoral teaching and research experience, the candidate will have experience in intracellular recording, patch clamp recording, immunocytochemistry, and intracellular labeling. Preference will be given to those with experience in the basal ganglia and its related structures. Candidate must be able to develop an independent research program and coordinate postdoctoral fellows and staff in a large lab setting. Rank and salary will be commensurate with qualifications. Please submit curriculum vitae, statement of research interests, and three names of references to: S. T. Kini, Department of Anatomy and Neurobiology, University of Tennessee, Memphis, TN 38163. Review of applications will begin March 1, 1994, and continue until the position is filled. The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/TITLE IX/Section 504/ADA Employer.

FOREST/NATURAL RESOURCES ASSISTANT PROFESSOR

A tenure-track position is available in forest management/economics/natural resources policy, Ohio State University in Columbus. Ph.D. in natural resources management, economics, policy or sustainable discipline required. Preference for position to go with at least one degree in forest management. Submit résumé, letter of interest, transcripts, and names of three references before April 1, 1994, to: Search Chair, Department of Forestry, School of Natural Resources, 1680 Madison Avenue, Wooster, OH 44691. Telephone: (216) 263—3785. Ohio State University is an Equal Opportunity/Affirmative Action Employer.

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SCIENCE • VOL. 263 • 18 FEBRUARY 1994
The New York Academy of Sciences

Call For Proposals

The New York Academy of Sciences has been at the forefront in encouraging the interactions of scientists and engineers by sponsoring conferences, workshops, and lectures. Our reputation for producing comprehensive conferences of quality is unsurpassed. We manage the administration and promotion of your conference, help you to obtain funding, and publish the proceedings in the Annals of the New York Academy of Sciences, which are distributed to libraries and professionals worldwide. The New York Academy of Sciences invites you to submit your proposal for a conference to be scheduled in 1995 or later. The proposal should consist of a two-page description of the conference including title, focus, topics, and an initial list of primary speakers. The Academy will contact you regarding the status of your proposal within a month from the receipt of the preliminary outline.

1994 CONFERENCE SCHEDULE

BCR Brain Corticosteroid Receptors: Studies on the Mechanism, Function and Neurotoxicity of Corticosteroid Action
March 2-5, 1994 Arlington, Virginia

HAD T-Cell Receptor Use in Human Autoimmune Diseases
Co-sponsored by the Arthritis Foundation
April 17-20, 1994 San Diego, California

PPS The Post-Polio Syndrome: Advances in the Pathogenesis and Treatment
April 27-30, 1994 Bethesda, Maryland

FDN Functional Diversity of Interacting Receptors

QTH Fundamental Problems in Quantum Theory
June 18-22, 1994 Baltimore, Maryland

ILC Interleukin-6-type Cytokines
Co-sponsored by The State Committee for Scientific Research, Warsaw
June 19-22, 1994 Poznan, Poland

ANT Immunoglobulin Gene Expression in Development and Disease
July 13-17, 1994 Montreal, Quebec, Canada

SRA Steroid Receptors and Antihormones
September 20-23, 1994 Dallas, Texas

OST Osteopontin
October 21-23, 1994 New Brunswick, New Jersey

REC Receptor Activation by Antigens, Cytokines, Hormones and Growth Factors
October 21-25, 1994 Orlando, Florida

ECO Forest Canopies: Ecology, Biodiversity and Conservation
November 10-13, 1994 Sarasota, Florida

NYE *** The Economy of the New York Metropolitan Region: Science, Technology, and Alternative Futures ***
*** Fall, 1994 *** New York, New York

*** VERIFY DATES and VENUE - Subject to change

All conferences designated Category 1 of the Physician's Recognition Award of the American Medical Association

All conferences result in a volume of the Annals of the New York Academy of Sciences

Poster Presentations are welcome

To submit a Proposal or receive further information on these conferences, (please circle the corresponding 3-letter code to the right), and mail or fax to:

Conference Department - SAD
New York Academy of Sciences
2 East 63rd Street
New York, NY 10021
\( \text{Fax} \) (212) 838-0230 x 324

Please send information on circled items:

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City
State Zip Country

Are you a member of the Academy? No ☐ Yes ☐ Membership #

Your Field(s)/Specialty(ies)

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SAD
NOTICE OF POSITION OPENING

Head, Department of Biology
University of Northern Iowa

Appointment: Professor, tenure appointment for the academic year (9 months) plus the summer session (2 months). The position is available August, 1994.

Responsibilities: 1) Serve as Head of the Department of Biology within the College of Natural Sciences. 2) Administer department budget and programs. 3) Supervise and evaluate faculty and staff. 4) Assist in establishing program priorities and goals based upon the undergraduate and graduate missions of the college, department and university. 5) Encourage and support innovation in teaching, research and service. 6) Assist the department in seeking extramural resources to support and advance the instructional and scholarly activities. 7) Engage in some teaching and research. 8) Promote a collegial and scholarly atmosphere.

Qualifications: 1) Ph.D. in biology; 2) credentials commensurate with an appointment as tenured full professor; 3) exhibited leadership reflected in philosophy of shared governance; 4) demonstrated service and record in teaching, research, and excellent interpersonal and communication skills. Applicants with success in obtaining extramural funding are preferred.

Salary: Competitive, commensurate with experience and qualifications. Excellent benefits include TIAA/CREF retirement, group life, medical, and dental insurance.

Applicants: To ensure full consideration, applicants must submit a current vita; the names, addresses and telephone numbers of four referees who may be contacted; and a letter of application describing professional interests and qualifications for the position. The Department encourages applications from minority persons, women, disabled persons and Vietnam era veterans. Review of applications will begin March 15, 1994. Address inquiries, applications, and nominations to:

Dr. Alan R. Orr, Chairperson
Head Search Committee
College of Natural Sciences
University of Northern Iowa
Cedar Falls, Iowa 50614-0181
(319) 273-2585
FAX (319) 273-2893

General Information: The University serves a student population of 13,000, and is one of three state universities governed by the Board of Regents. The University is located in the metropolitan area of Cedar Falls, home to 35,000 residents and 7,500 students, and 75,000 residents, which together forms the commercial, cultural, and political hub of northeast Iowa. The Department of Biology and Natural Sciences is located in the College of Natural Sciences. The Department's 20 faculty members include the interests of various departments and offers program leading to B.A., B.S. and M.A. degrees. The Department has a strong emphasis on research, including a research facility, greenhouses and a controlled environment facility. A summer field station, located in the northwest Iowa, is operated jointly by the three state universities.

THE UNIVERSITY OF NORTHERN IOWA IS AN EQUAL OPPORTUNITY EDUCATOR AND EMPLOYER WITH A COMPREHENSIVE PLAN FOR AFFIRMATIVE ACTION

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Université de Montréal
Faculté de médecine

FACULTY POSITION IN MOLECULAR BIOLOGY

The Département de biochimie, Faculté de médecine, Université de Montréal invites applications for a tenure track position, at the professor level. The Department has excellent research facilities and strong ongoing programs in cell and molecular biology. Functions: Candidates are expected to develop a vigorous research program in various areas of gene regulation, including development and signal transduction. Preference will be given to candidates using a genetically well-characterized system. Requirements: Applicants should hold a Ph.D. degree or equivalent and demonstrate capacity for independent research. The candidate should be prepared to teach in French one year after arrival. Starting date: in 1994. Please send CV, a statement of research interests, representative reprints and three letters of reference before April 15, 1994 to: Doctor Normand Brisson, Search Committee Chairman, Département de biochimie, Université de Montréal, C.P. 6128, succursale centre-ville, Montréal (Québec), H3C 3J7. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University is committed to equal employment opportunity for women.

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DEVELOPMENTAL GENETICIST

Assistant Professor in the Departments of Animal Science and Avian Sciences and Assistant Geneticist in the Agricultural Experiment Station, University of California, Davis. Eleven-month, tenure-track position. The successful candidate will be expected to establish an independent, externally funded research program in the area of developmental biology. The candidate will be expected to teach an upper-division course in vertebrate developmental genetics in the program emphasizing avian development, participate in other undergraduate and graduate teaching in genetics or developmental biology, and train and advise undergraduate, M.S. and Ph.D. students. Candidates should have a Ph.D. in developmental genetics or a related area, a solid background in research and teaching and demonstrated research productivity and/or potential. Applicants should submit a curriculum vita, transcripts (official transcripts are required if Ph.D. was granted in the past five years), a detailed description of his/her research accomplishments, teaching experience and expertise, and future plans. Applicants should provide names, addresses and FAX numbers of five individuals familiar with the applicant's teaching and research abilities. Applications should be submitted to: Recruitment Committee, Department of Animal Sciences, University of California, Davis, CA 95616-8532. Closing date: Open until filled, but all application materials must be received before March 31, 1994 to be assured of full consideration. The University of California is an Equal Opportunity/Affirmative Action Employer.
Human Genome Sciences, Inc.'s mission is to identify and develop drugs and diagnostic products based on its leadership position in the discovery and expression of novel genes from human, animal, plant and microbial origin. HGS has openings in the following areas:

**HUMAN GENE MAPPING**
HGS is initiating a program to locate all expressed genes on a physical map of the human genome. Our gene discovery efforts have identified over 40,000 unique human genes that are expressed in normal and diseased states. We are seeking a Director for the genome mapping program. The successful candidate will have an outstanding record of achievement in genome analysis as well as organization and management skills. We are also seeking M.D. and Ph.D. scientists with skills relevant to gene mapping, including epidemiology of inherited disease, expertise in construction of physical maps and computer skills relevant to genome mapping and analysis. *Reference Job Code 6-10-46.*

**DRUG DEVELOPMENT in HEMATOPOIESIS & IMMUNOLOGY**
HGS has identified many new members of the interleukin, cytokine, and chemokine gene families. We are seeking specialists in the area of immunology, hematopoiesis and tissue repair. The successful candidates will hold an M.D. or Ph.D. with at least 5 years experience in pharmaceutical development or programs in therapeutic proteins, interferons, interleukins, or colony-stimulating factors. Experience in the pharmaceutical industry is a firm prerequisite. *Reference Job Code 6-10-48.*

**INFECTIOUS DISEASE**
HGS has initiated a program to create new classes of anti-microbial therapeutics based on novel targets discovered by sequence analysis of virulence genes. We are seeking M.D.s and Ph.D.s with at least 5 years of pharmaceutical company experience in the development of anti-microbial or anti-fungal therapeutics. *Reference Job Code 6-10-49.*

**PROTEIN BIOCHEMISTRY & PURIFICATION**
Candidates will possess a Ph.D. or M.D. in a relevant discipline and have 3-4 years of industrial experience in protein isolation and characterization. Familiarity with HPLC, FPLC, and affinity chromatography is required. *Reference Job Code 6-10-50.*

*Human Genome Sciences, Inc. is located in Rockville, Maryland in a region of intense scientific and biotechnological activity. The company encourages the pursuit of academic excellence and offers a comprehensive benefits package including medical/dental insurance, 401(K), and tuition reimbursement. For immediate consideration, please forward your curriculum vitae along with three references to: (please reference the appropriate Job Code number)*
Positions Open

Cardiac Molecular Biology/Biochemistry

Department of Medicine, University of Pittsburgh Medical Center, seeks well-qualified applicants with a Ph.D., M.D., or M.D./Ph.D., degree and an interest in cardiac molecular biology, cell biology and biochemistry for two openings in the Division of Cardiology. Candidates should have a demonstrated postdoctoral position and be prepared to conduct an independent program of molecular cardiac research. Positions are tenure-track and will be at the ASSOCIATE PROFESSOR or ASSOCIATE PROFESSOR level depending upon experience. The position involves opportunities for participating in either the teaching or clinical activities of the Department of Medicine. Applicants must have interest in, but are not limited to, myocardial gene transfer, myocyte growth and differentiation, and regulation of cardiac gene expression. Applicants should send curriculum vitae, a statement of research interests, and the names of three references to: Arthur M. Feldman, M.D., Ph.D., Harry S. Tack Professor of Medicine, Chief of Cardiology, 5th Floor Scaife Hall, 3550 Terrace Street, The University of Pittsburgh School of Medicine, Pittsburgh, PA 15213–2800. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION—Burn Wound and Vascular Biology

The Texas A&M University Health Science Center invites applications for a tenure-track ASSOCIATE PROFESSOR position in Burn Wound Physiology and Vascular Biology at the ASSOCIATE PROFESSOR level to be held by the Departments of Surgery and Medical Physiology. Applicants should hold the M.D. or Ph.D. degree and have substantial postdoctoral training in molecular and cell biology. The candidate is expected to develop a strong, grant-supported research program and participate in the training of medical students, residents, graduate students and postdoctoral fellows. He/she will join a multidisciplinary cardiovascular faculty consisting of scientists from the Colleges of Medicine, Agriculture, Engineering and Veterinary Medicine. The successful candidate will have a strong commitment to basic and clinical research, provide career goals, and summary of research interests to: Dennis J. Lynch, M.D., Chairman, Department of Surgery, Texas A&M University Health Science Center, Temple, TX 76508. Texas A&M University is an Affirmative Action/Equal Opportunity Employer.

Molecular Biology

Joint science department: the Claremont Colleges

Assistant Professor, tenure-track, starting fall 1994, with emphasis on development biology or endocrinology. Teaching majors in these areas, as well as nonmajors, in a highly selective liberal arts college environment. Research with undergraduates expected and encouraged. Superb new facilities. Send resume, letter outlining educational philosophy and teaching experience, research interests and needs, and three reference letters to: David Sadasivan, W.M. Keck Science Center, 925 North Mills Avenue, Claremont, CA 91711. Telephone: 909-621-8298. Application review begins March 10, 1994. An Affirmative Action/Equal Employment Opportunity Employer.

John Carroll University, Chemistry Department seeks Ph.D. in BIOCHEMISTRY, with strong support in Analytical Chemistry for tenure-track ASSISTANT PROFESSOR position beginning August 1994. Experience in protein & DNA manipulation a plus. Teaching duties include undergraduate and graduate biochemistry, analytical and general chemistry. The department has active M.S. program. The Biology and Chemistry departments anticipate developing a joint concentration in biochemistry/molecular biology. The incumbent is expected and encouraged to establish and develop a productive research program. Instrumentation includes FT-IR, FT-NMR, ICP-MS, HPLC, Spectrophotometer, Electrophoresis, Liquid Scintillation and Ultrasound centrifuge. John Carroll University is a Catholic, Jesuit, coeducational university located in the eastern suburbs of Cleveland. Send resume, graduate and undergraduate transcripts, three letters of recommendation, publication list, teaching philosophy, research plans and start-up needs to: Dr. Richard Gau, Chairperson, Department of Chemistry, John Carroll University, University Heights, OH 44118. Applicant review will begin immediately and continue until the position is filled. An Affirmative Action/Equal Opportunity Employer.

The Department of Physiology at Nova Southeastern University invites applications for a full-time ASSISTANT PROFESSOR position. Candidates must have a doctoral degree in physiology and a commitment to excellence in teaching. Preference will be given to individuals with primary interest in endocrinology. Please send curriculum vitae and list of three references by March 11, 1994, to: H. Jay Lyons, Ph.D., Department of Physiology, Nova Southeastern University, 1750 N.E. 167th Street, North Miami Beach, FL 33162.
The Results of Collaboration.

Collaborative Research, Inc. is a leader in human genetics research. We have been a major contributor to the Human Genome Project and we seek to translate the discoveries of this project into significant commercial breakthroughs in human medicine. Our research expertise in physical and genetic mapping, large-scale sequencing, and bio-informatics is focused on such core areas as tuberculosis and related pathogens, mental illness, and cancer.

Molecular Biologist

Needed to work with existing teams in the following areas—methods for efficient isolation of YAC DNA; large-scale, high resolution mapping of cDNAs to human chromosomes; identification and isolation of genes in human genomic DNA; heterologous gene expression in microbial and mammalian hosts. Requires a Ph.D. in molecular biology, biochemistry, or related field. Experience with molecular genetics/DNA manipulation and DNA affinity capture methods is desirable. Post-graduate and/or previous supervisory experience in related areas is a plus.

Molecular Geneticist

Will play a lead role in efforts to map and clone gene(s) responsible for human disorders. Requires a Ph.D. with experience in molecular biology or genetics. Expertise in genetic and physical mapping, as well as gene identification, preferred. Previous supervisory responsibility a plus.

Microbial Molecular Biologist

A unique opportunity to help identify and study the function of target genes, identified by large scale genome sequencing for the development of new M. tuberculosis anti-infectives. Requires a Ph.D. in biochemistry or molecular biology, at least 2 years' experience in working with mycobacteria or related organisms, and an ability to interact with a coalition of top scientists in mycobacterial sequencing, biochemistry and molecular genetics.

Molecular Biologist/Gene Analyst

Help lead an exciting project to apply state-of-the-art genome sequencing techniques and computer analysis tools toward understanding the genomes of micro-organisms with key significance for research and medical science. Requires a Ph.D. with at least 2 years' experience in molecular biology or genetics, good management and communication skills, and an interest in computer analysis of large-scale DNA sequencing information.

At CRI we offer a comprehensive salary and benefits package. Interested candidates should send a resume or a curriculum vitae to: Human Resources, Collaborative Research, Inc., 100 Beaver St., Waltham, MA 02154. An Equal Opportunity Employer M/F/V/H.

Structural Biology Research Assistant

Join the Growth. Join the Success.

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

Pfizer Central Research Laboratories in Groton, Connecticut are the company's primary U.S. research facilities committed to creating a healthier world population. In addition, the Central Research Laboratories represent one of only a handful of R&D organizations with a budget over $1 billion to support continued advances in science. To accomplish that goal we are actively recruiting the following positions in laboratory research towards the discovery of new human medicinal therapeutics.

Currently, we are seeking a highly motivated research assistant in our Protein Crystallography Laboratory.

The successful candidate will be involved in several ongoing projects to determine the three-dimensional structures of proteins of pharmaceutical interest. Responsibilities include routine protein purification, setting up and monitoring protein crystallization experiments, screening for heavy atom derivatives, and assisting with x-ray diffraction data collection. This position requires a BA/BS or MA/MS in biochemistry or molecular biology. Prior experience in protein purification, use of HPLC and FPLC equipment is desirable.

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

To learn how you can be part of the future of Pfizer, send your resume to: Mr. Kym Goddu, Assistant Manager, Employee Resources, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.
POSITIONS OPEN

DIRECTOR—MOLECULAR BIOLOGY

Academia Sinica, Taipei, Taiwan, ROC, is seeking nominations and applications of scientists qualified to serve as Director of the Institute of Molecular Biology (IMB), IMB currently has over 20 principal investigators and about 100 scientific staff. It is well-supported by stable funding and has potential for growth. Research programs include gene regulation, metabolic and synthetic genomics, and other areas. Opportunities also exist for developing new programs. Applications or nominations should include a cover letter and complete curriculum vitae, as well as the names, addresses and telephone numbers of six references. Review of applications and nominations will begin on April 5, 1994, and continue until a suitable candidate is recruited. Applications and nominations should be sent to: Shu Chien, Institute for Biomedical Engineering, University of California, La Jolla, CA 92037-0412. (Telephone: 619-534-5195; FAX: 619-534-5722).

The Department of Mechanical Engineering at the Massachusetts Institute of Technology invites applications for a faculty position in the area of FLUID-DYNAMICS. Areas of interest include, but are not limited to, studies in the fundamentals of molecular and interfacial phenomena, multiphase transport processes in simple and complex systems, and associated diagnostics. The appointee is expected to contribute to teaching and curriculum development at the undergraduate and graduate level. Applications are invited for a sponsored graduate research program in his/her field of interest. Applicants should have a Ph.D. in mechanical engineering or a closely related field and have demonstrated interest and exceptional ability in teaching and research. Individuals with industrial-related experience are particularly encouraged to apply. Preference will be given to applicants with teaching and research responsibilities and/or teaching assistant experience. Applications of a full professor or equivalent for at least 5 years, and evidence of administrative ability and familiarity with the Taiwan system. Applications or nominations should include a cover letter and complete curriculum vitae, as well as the names, addresses and telephone numbers of six references. Review of applications and nominations will begin on April 5, 1994, and continue until a suitable candidate is recruited. Applications and nominations should be sent to: Dr. Shu Chien, Institute for Biomedical Engineering, University of California, La Jolla, CA 92037-0412. (Telephone: 619-534-5195; FAX: 619-534-5722).

RESEARCH-TRACK FACULTY POSITION

A research-track faculty position in tracer kinetics and modeling is available. Candidates should have either a Ph.D. or an M.D. degree with experience in in vivo imaging. Knowledge of tracer kinetics is helpful but not necessary. The scientist will participate as a team member in developing tracers for functional imaging of CNS neuroreceptors with PET and SPECT. The scientist is expected to develop extramural research support. Academic rank and salary commensurate with experience. Send resume to: Dr. Hank F. Kung, Department of Radiology, University of Pennsylvania, Room 305, 3700 Market Street, Philadelphia, PA 19104. (Internet: kungfh@pobox.upenn.edu). Equal Opportunity Employer.

RESEARCH INSTRUCTOR

Position available for a recent Ph.D. graduate in Biochemistry with an extensive background in the purification and characterization of large, recombinant proteins and of native protein structures. Experience and expertise in protein chemistry, in large-scale fermentation of bacteria, and in the use of molecular biology tools are essential prerequisites for the successful candidate. Send curriculum vitae and three letters of reference to: Dr. J. A. Engler, Department of Biochemistry and Molecular Genetics, University of Alabama at Birmingham, Birmingham, AL 35294-0005. Deadline for applications is March 31, 1994. UAB is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

DIRECTOR, DIVISION OF ANIMAL AND VETERINARY SCIENCES

COLLEGE OF AGRICULTURAL AND FORESTRY

WEST VIRGINIA UNIVERSITY, MORGANTOWN, WEST VIRGINIA

West Virginia University College of Agriculture and Forestry invites applications and nominations for the position of Division of Animal and Veterinary Sciences. The Division has facilities, including 3 farms, for teaching and research in dairy, livestock, poultry, and food science and currently has 17 faculty, 80 staff and 165 graduate and undergraduate students. The Director will provide leadership and guidance in the teaching, research and public service programs of the division. Ph.D. in Animal Science or related field; an established reputation in research, teaching and service in the Land-Grant University System; the ability to effectively communicate with college and university administrators, faculty, staff, students, clientele groups and others involved in the state's animal industries; evidence of ability to collaborate with other organizations; and a commitment to social justice. The successful candidate must qualify for tenure in the Division. Administrative experience is highly desirable. Closing date for receipt of applications is April 30, 1994, or until a suitable candidate is identified. Send letter of application, and complete curriculum vitae, names, addresses, and telephone numbers of at least four persons qualified to provide professional references to: Alfred L. Barr, Chairman, Search Committee, College of Agriculture & Forestry, West Virginia, Morgantown, WV 26506-6108. West Virginia University is committed to diversity and encourages applications and nominations from women and minority groups.

CHAIR, DEPARTMENT OF PHYSIOLOGY

MIDWESTERN UNIVERSITY

Applications are invited from senior faculty to assume the position of chair of the Department of Physiology. Midwestern University is comprised of the Chicago College of Medicine, which offers available internships. The chair is to: (1) continue the strong program in the Colleges of Pharmacy and the College of Allied Health Professions. The successful candidate is expected to have an established reputation as a teacher, researcher, and leader in education. Candidates are asked to send a resume and statement of teaching and research interests to: Mark Cummings, Ph.D., Associate Dean for Academic Affairs, Midwestern University, 555 31st Street, Downers Grove, IL 60515. An Equal Employment Opportunity Employer.

Florida International University (FIU), the State University of Florida at Miami, seeks two permanent, full-time POSTDOCTORAL FACULTY, one in HUMAN ANATOMY and one in BIOLOGY. The Anatomist's responsibilities include Gross Anatomy lecture and labs with cadaver dissection, and Human Anatomy lecture and labs with cadaver dissection. Teaching experience is preferred, and anatomy teaching experience required; start June 1994. The Biologist's responsibilities include teaching general biology to freshmen, as well as introductory biology to non-majors and health-related disciplines at our North Miami campus. Ph.D. and teaching experience required; start August 1994. To apply, send curriculum vitae and three letters of recommendation to: John M. Eisenman, Anatomist Search and Screen Committee or Biologist Search and Screen Committee, Department of Biological Sciences, Florida International University, Miami, FL 33199. Applications must be postmarked on or before March 24, 1994. FIU is an Equal Access/Affirmative Action/Equal Opportunity Employer and a member of the State University System of Florida.

POSTDOCTORAL POSITION

The Division of Gastroenterology at our 591-bed major teaching hospital affiliated with SUNY-Stony Brook School of Medicine. The focus of research is the study of mechanisms and control of epithelial and muscle function in animal models of inflammatory bowel disease. Candidate should have a Ph.D. or equivalent experience in cell biology, molecular biology or immunology. The position is funded for at least two years. Send curriculum vitae and the names of three references to: Employment Opportunities, Herbert H. Lehman College, Bronx, NY 10461. Equal Opportunity Employer.

POSITIONS OPEN

TWO POSITIONS IN BIOLOGICAL SCIENCES FOR ACADEMIC YEAR 1994-95


The Hebrew University—Hadassah Medical School

The Hebrew University—Hadassah Faculty of Dental Medicine, Jerusalem, Israel

FACULTY POSITION

Applications are invited for a tenure-track position in the Division of Operative Dentistry, Department of Restorative Dentistry. Ph.D. and/or D.M.D. degrees and postdoctoral training are required. Excellence in research and teaching will be of prime importance. Candidates are expected to develop and maintain an independent research program.

Curriculum vitae, list of publications, 3 to 5 selected reprints, research plans and three letters of recommendation addressed to: Dr. Z. Alye, to: Medical School, Hadassah, PO Box 83391 Jerusalem 91120, Israel; not later than April 15, 1994.

POSTDOCTORAL POSITION MOLECULAR BIOLOGY

The MCB ERG, University of North Carolina, will provide immediate funding for NIH-funded investigators and isolation of genes active in signaling the maturation, cytokine responses, and/or apoptosis of murine erythroid colony forming units. Applications should include curriculum vitae and names of three references to: Dr. S. Boyer, Children's Hospital of Philadelphia, Medical School, 3400 Spruce Street, Philadelphia, PA 19104; or to: Dr. T. Eisenman, MCB ERG, University of Pennsylvania, Department of Biology, Philadelphia, PA 19104; or to: Dr. W. Leonard, Children's Hospital of Philadelphia, Medical School, 3400 Spruce Street, Philadelphia, PA 19104. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION, INTERFERONS AND INTERFERONS RECEPTORS AND INTERFERONS, available immediately or early spring. Interactions of cloned and genetically engineered alpha interferon receptors with interferons will be studied. Background in recombinant DNA and/or cell culture and experience with proteins and tissue culture is helpful. Send curriculum vitae and names of three references to: L. M. Eisenman, Ph.D., Department of Anatomy and Developmental Biology, Thomas Jefferson University, Philadelphia, PA 19107; or to: Dr. J. S. Lebowitz, MEML, Duke University, Durham, NC 27710. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION in DEVELOPMENTAL NEUROBIOLOGY. Research involves the morphological and biochemical analysis of cerebellar and brainstem development in normal mice and mice mutants characterized by specific cerebellar develop- ment. Position available immediately. Please submit curriculum vitae and three letters of reference to: L. M. Eisenman, Ph.D., Department of Anatomy and Developmental Biology, Thomas Jefferson University, Philadelphia, PA 19107; or to: Dr. J. S. Lebowitz, MEML, Duke University, Durham, NC 27710. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

To study the molecular genetics of human DNA replication. Epstein-Barr and papillomavirus DNA (and the a-reconjugated SV40) are useful model systems both in vivo and in vitro to study cell cycle regulation of DNA replication and the role of cell cycle checkpoints in regulating DNA replication and the regulation of replication proteins. Applications of any field except of: (1) Immunology and (2) X-ray crystallography to: Dr. Carl Schildkraut, CB 416, Albert Einstein College of Medicine, New York, NY 11208. An Equal Opportunity Employer.

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The Department of Biological Sciences is currently expanding and seeks qualified candidates for two full-time tenure-track (9 mo) assistant professorships beginning 8/14/94. Requirements common to both positions include Ph.D. degree, post-doctoral research experience, potential to obtain extramural funding, and ability to teach both general biology and upper division and graduate courses in specialty area. Teaching experience preferred. Vertebrate zoologist, Position #301356: This is a full-time position in Biological Sciences. Teaching responsibilities include general zoology, and the ability to teach invertebrate zoology applicable to Alaskan environment. Research expertise in field vertebrate zoology applicable to Alaskan environment is sought. Soil environment microbiologist, Position #300315: This is a joint position with the Environment & Natural Resources Institute (ENRI). Teaching responsibilities include general microbiology and microbiology for health sciences. Research emphasis in soil or environmental microbiology, trace gas fluxes, aquatic microbiology, biomonitoring, or other areas important to Alaska is sought. Successful candidate will be expected to participate in multidisciplinary research programs at ENRI. Obtain complete job announcement from UAA Personnel Office, 3860 University Lake Dr., Anchorage AK 99508-0000, (907) 786-4008, FAX (907) 786-1420, (907) 786-4727. Submit letter of application indicating position number, with vita, statements of teaching philosophy and research goals, reprints, and other supporting documents plus the name, address, and telephone number of three referees. Search will remain open until the position is filled; however, the screening committee will begin reviewing applications on 3/10/94. UAA is an AA/EEO Employer and Educational Institution. Women and Minorities are especially encouraged to apply. Must be eligible for employment under the Immigration Reform and Control Act of 1986.

ENZON, Inc.

Enzon's core technology enhances the delivery of protein-based drugs and provides a unique opportunity for the innovative and imaginative professionals who participate in the development.

CARDIOVASCULAR PHARMACOLOGIST

The successful candidate will manage and work within an established research group to utilize new or existing models to evaluate the pharmacological activity and potential efficacy of novel oxygen-delivery agents derived from Enzon’s proprietary technology research. Supervision of degreed research scientists and technicians will be required. Ph.D., M.D., or D.V.M. 8-10 years. Dept. CP

TUMOR BIOLOGIST

The successful candidate will manage and work within an established research group to develop a set of in vitro and in vivo tumor models to evaluate the potential efficacy of novel anticancer therapies using biotechnology compounds derived from Enzon’s proprietary technology research. Supervision of degreed research scientists and technicians will be required. Ph.D., M.D., or D.V.M. 6-8 years. Dept. TB

Helping to shape Enzon’s future directions through close interaction with other disciplines within Research and Development and corporate business units will be expected. With a high value on creativity, we’re prepared to offer you a competitive compensation and benefits package. Please send your resume, indicating department and salary history, to: Human Resources, Enzon, Inc., 40 Kingsbridge Road, Piscataway, NJ 08854. EOE.

BIOLOGY FACULTY POSITIONS UNIVERSITY OF ALASKA ANCHORAGE

At Genetics Institute, we provide a work environment which many have described as entrepreneurial. Ideas flow freely, open discussion is encouraged. We attract top people, and provide them with the kind of culture that keeps them here. All this we do, because good science leads to good products. And when we give our people the room to improve science, we can truly improve lives.

DISCOVERY RESEARCH

Cellular Immunology/Cytokine Discovery (4 Positions)

Our Department is seeking two Ph.D-level and two BS/BA-level scientists to carry out various functions. One Ph.D must have 3-5 years' postdoctoral experience in T-cell function studies (including T-cell activation, proliferation, lymphokine production and cytokytic activity) to work in our cytokine discovery group. An interest in establishing novel cellular assays is essential, experience with molecular biology is a plus. The other Ph.D must have several years' postdoctoral experience in immunology and molecular biology, along with a strong interest in cytokines and cytokine receptor signalling. Job Code: 94-001-S

The desired BS/BA scientists must both be experienced in cellular immunology. The first individual will be highly motivated, able to perform a variety of T lymphocyte assays and have extensive experience in the cloning and long-term culturing of T lymphocytes. The second individual will have experience with T-cell function studies, cloning and long-term culturing, along with some experience and/or interest in molecular biology. Job Code: 94-002-S

Please forward your resume, specifying position of interest and corresponding job code, to Human Resources Department, Genetics Institute, Inc., 87 CambridgePark Drive, Cambridge, MA 02140. Genetics Institute is dedicated to building strength through diversity.
POSTDOCTORAL POSITION

Large pharmaceutical company offers an English-speaking Ph.D. a one to two-year postdoctoral position, in Montpellier, France, to develop the Patch Clamp Technique in cardiac and vascular cells.

The candidate should have a background in Physiology, Pharmacology and good experience in Patch Clamping, in the Cardiovascular Field, and preferably Single Channel Recording. A knowledge of cell culture will be an advantage but is not essential. Mastery of the French language would be useful but is not mandatory.

Send applications, including a detailed resume, a list of publications and names of three references to:
Beatrice Kimmel
1899 L Street, N.W., Suite 500
Washington, D.C. 20036

BIOCHEMISTRY POSTDOCTORAL POSITION

available immediately to study the structure and function of mast cell proteinases. Experience with protein purification, HPLC, UV/Vis spectrometry, protein characterization and protein chemistry desired. Well-equipped laboratory in an active department, located in beautiful, mountainous northeastern Tennessee. Send curriculum vitae including 3 references that can be reached by telephone and FAX to: Dr. David A. Johnson, Professor and Interim Chair, Department of Biochemistry, College of Medicine, East Tennessee State University, Johnson City, TN 37614–0581. Telephone: (615) 929–6273; FAX: (615) 461–7040.

East Tennessee State University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

in lung toxicology/cell biology available immediately to study cellular and subcellular events involved in the immunological and physiological changes in the airways following exposure to air pollutants. The studies utilize innovative in vivo and in vitro approaches to examine biological effects. Participation in studies aimed at analyzing cytokines, cell adhesion molecules, cytoskeleton and epithelial injury is expected. Experience can be drawn from immunocytochemical, morphological and biochemical aspects. This position is funded by a grant from NIH, with a starting stipend of $25,000. Send curriculum vitae and names of three references to: Deepak M. Bivala, Ph.D., Department of Community and Environmental Medicine, University of California, Irvine, Irvine, CA 92717–1825. FAX: (714) 856–4763; Telephone: (714) 856–4761. UCI. Rooted in education, enriched by diversity.

POSTDOCTORAL POSITION

in neural mechanisms of disease models of neurodegenerative diseases, such as Alzheimer’s disease and Huntington’s disease. The candidate will conduct research using a combination of electrophysiological, biochemical, and in vivo imaging techniques. Experience in in vivo imaging and pharmacology is desirable. Applications are encouraged from qualified individuals who meet the following criteria:

1. B.S. or M.S. in Neuroscience, Biology, or related field.
2. Knowledge of electrophysiology and pharmacology.
3. Experience with in vivo imaging techniques.

Applications should be submitted to:
Prof. David S. Lee
Department of Pharmacology
University of California, Irvine
Irvine, CA 92697
FAX: (714) 452–4756
E-mail: lee@uci.edu

UCI is an Equal Opportunity, Affirmative Action Employer.

POSTDOCTORAL POSITION

at the Weis Center for Research in Danville, Pennsylvania. The successful applicant will have a Ph.D. in biochemistry, cell biology, or pharmacology with experience in molecular biology. The position will involve the expression and characterization of novel forms of adenylyl cyclase (see J. Biol. Chem. 267:24858–24862). Emphasis will be placed on determining those structural features of the adenylyl cyclases responsible for mediating unique physiological effects. The Weis Center is a well-equipped, modern research facility in a semi-rural environment. Competitive salary and fringe benefits are available. Please send a curriculum vitae with the names and telephone numbers of three references to: Geisinger Human Resources (J.K.), 100 North Academy Avenue, Danville, PA 17822–1529. Equal Opportunity Employer, M/F/H/.”
We operate modern observational facilities for the national and international astronomical communities. Our primary facility is the large synthesis radio telescope located at Westerbork. This telescope is one of the largest of its kind in the world, and observes the radio sky both stand-alone and as part of the European Very Long Baseline Interferometry Network. We also participate in international collaborations in operating optical telescopes on the island of La Palma, Canary Islands, and a 15-m sub-millimeter radio telescope on the island of Hawaii, USA.

We apply technology to create new observational capabilities for our telescopes. Our primary strategy for competing in the international astronomical arena is continually to develop innovative instruments and observing techniques. We specialize in the following technologies:

- low-noise receiver systems at HF and microwave frequencies;
- high speed massively parallel, digital signal processing systems, incorporating ASIC VLSI chips of our own design; and
- data reduction and analysis algorithms implemented using the techniques of modern software engineering.

We support specific research projects, generally in collaboration with astronomers at Dutch universities.

We are currently engaged in a major upgrade of the synthesis radio telescope at Westerbork that is scheduled to be completed in 1997. It is our ambition to play a leading role in the development of the next generation of radio telescope, with as primary scientific motivation the observation of material during the earliest epochs of the Universe.

Requirements:
The successful candidate will have:
- proven expertise in one of the main fields of technical R&D at NFRA, or in a closely related field;
- the ambition to make a significant contribution to fundamental science through application of technology;
- proven leadership skills in the management of people;
- experience with modern techniques of project management; and
- the potential to grow into an effective manager of high profile international projects.

He/she will of course:
- have a university degree, preferably a PhD, in electrical engineering, physics or other relevant area, or the equivalent in experience;
- be a good organizer, communicator and motivator of people;
- be a team player, especially in his/her role as member of the Management Team of the Foundation; and
- speak and write in the Dutch and English language.

Salary and conditions:
Remuneration and conditions of employment will be based on age and experience according to Dutch civil service regulations. The appointment will be with the Netherlands Organization for Scientific Research. Location of work will be the NFRA Institute's Dwingeloo laboratory. Following an initial probationary period, employment will become permanent. Appointment as Head of R&D Laboratory, however, will be for a period of five years with the possibility of extension.

Further information:
For additional information concerning the NFRA in general and this position in particular, please contact either professor dr. Harvey R. Butcher, Director, Netherlands Foundation for Research in Astronomy, P.O. Box 2, 7990 AA Dwingeloo, email HButcher@nfra.nl; or dr. Wilfried Boland, Deputy Director, same address, email Boland@nfra.nl; telephone (31)(0)5219-7244.

Application:
Written application for this position should be made before 1 April 1994 to Personnel Department, Netherlands Foundation for Research in Astronomy, P.O. Box 2, 7990 AA Dwingeloo, the Netherlands. Please refer to Head of Research and Development Laboratory, Vacancy “ASTRON 94/01”.

Women in particular are invited to apply.
POSITIONS OPEN

POSTDOCTORAL POSITION

A postdoctoral position in Pharmacology is available. Candidates should have a Ph.D. in either medicinal chemistry, biochemistry, or pharmacology to join a research team to study novel hormone actions in the heart. Applicants for faculty positions in imaging with PET and SPECT. Major emphasis will be on using products of molecular biology to characterize new ligands. Experience in in vitro receptor assays, autoradiography, murine anatomy and radiochemistry will be helpful. Send resume to: Dr. Hank F. Kung, Department of Radiology and Pharmacology, University of Pennsylvania, Room 305, 3700 Market Street, Philadelphia, PA 19104. (Internet: kunghf@pobox.upenn.edu). Equal Opportunity Employer.

POSTDOCTORAL POSITION

May 1994.

The Kellogg Biological Station (KBS) Long Term Ecological Research (LTER) project seeks a postdoctoral associate to join the LTER to examine patterns and consequences of biological diversity on ecosystem-processes. The research is focusing on patterns of linking, through GIS and modeling, ecosystem processes and community-level studies at the site to local, landscape and regional patterns of biological diversity. Applicants should hold a Ph.D. in ecology, soils science, forestry or related field. Experience with GIS and ecosystem models is desirable. This position will be funded by the KBS LTER. Applications, including names of three references, should be submitted by May 15, 1994, to: Dr. Katherine L. Gross, Acting PI, KBS LTER, Kellogg Biological Station, Michigan State University, 505 Kellogg Drive, Hickory Corners, MI 49000. (616) 671-2235, (Telephone), (616) 671-2104 (FAX), KGross@kbs.msu.edu.

Michigan State University's Kellogg Biological Station is an Equal Opportunity Employer and encourages applications from women and minorities.

POSTDOCTORAL FELLOWSHIP

Two positions available in laboratory investigating the molecular basis of interactions between enteropathogenic E. coli and epithelial cells. Strong background in molecular cloning techniques required. Experience in protein purification and mammalian cell transfection preferred. Send curriculum vitae and names of three references to: Dr. Michael Donnenberg, Division of Infectious Diseases, University of Maryland School of Medicine, 10 South Pine Street, Baltimore, MD 21201. An Affirmative Action/Equal Opportunity Employer.

U.S. DEPARTMENT OF AGRICULTURE

SCIENCE FELLOW POSITION IN MOLECULAR BIOLOGY WITH D.V.M. AND/OR PH.D.

The U.S. Department of Agriculture, Animal and Plant Health Inspection Service announces a unique scientific fellowship dedicated to recombinant expression and utilization of diagnostically useful proteins derived from animal disease pathogens of international importance. Requirements: Candidate will have competency in standard molecular techniques of nucleic acids and protein analysis and specific experience with bacteriol, insect, yeast, and/or mammalian gene expression systems. Outstanding candidate will have a D.V.M. and/or Ph.D. with specific experiences with specific experience in recombinant protein expression.

Work Environment: The science fellow will work with a multidisciplinary group of animal health professionals at USDA’s National Veterinary Services Laboratories located at Orient Point, New York and Brookings, South Dakota. Additional positions with experience in nucleic acid analysis and support will be provided, as will the opportunity for interaction with USDA's Agricultural Research personnel and nearby university scientists in both locations. Publications expected and supported.

Position Tenure: Position funded for 2 years with possibility extending additional 2 years.

Position Location: Call: (301) 704-2200 for Announcement #AG-VS-062 and necessary application forms. Applications must be postmarked by March 18, 1994. For general information on the Science Fellow Program call 1-800-762-2738. U.S. Citizenship is REQUIRED. The Federal Government is an Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION

Postdoctoral molecular biologist or biochemist position is available to study molecular mechanisms of angiogenesis, or heat shock gene expression. Experience in gene cloning, vector construction, and DNA sequencing is required. Send curriculum vitae and names of three references to: Yong J. Lee, Ph.D., Radiation Oncology Unit, 5601 West Thirteen Mile Road, Royal Oak, MI 48073-6769. William Beaumont Hospital is an Equal Opportunity Employer.

GRADUATE ASSISTANTS IN MOLECULAR BIOLOGY, BIOCHEMISTRY AND BIOPHYSICS. Several positions are available in the Department of Molecular Biology and Biochemistry, Wesleyan University, Middletown, Connecticut. Departmental research interests emphasize regulation of gene expression in embryogenesis and development; heat shock response and cellular regulation of iron metabolism; biophysics of protein-nucleic acid interactions, tissue differentiation and regulation of collagen gene expression; molecular genetics and regulation of protein secretion; DNA replication, mutagenesis, and protein purification are essential. Send curriculum vitae and three references to: Dr. Michael J.运输, Department of Molecular Biology and Biochemistry, Wesleyan University, Middletown, CT 06459-0175 or call (203) 344-8544, extension 3.

POSTDOCTORAL RESEARCH POSITION IN MOLECULAR BIOLOGY. PROTEIN CRYSTALLOGRAPHY

Position is available immediately to work on high level of expression of an array of enzymes involved in lipid interactions and transcription factors. Experience in protein purification and mammalian cell transfection preferred. Send curriculum vitae and names of three references to: Dr. Michael Donnenberg, Division of Infectious Diseases, University of Maryland School of Medicine, 10 South Pine Street, Baltimore, MD 21201. An Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE

Develop techniques to study seizure source, propagation path and site effects. Develop methods for validating the coda method for estimating the weak motion amplification factor. Develop the simulation of linear site response for soil characterized by the shear wave velocity distribution. Requirement: Ph.D. in Geological Sciences. Ability to program on VAX and UNIX systems using FORTRAN, PASCAL and C. Background in interpreting and analyzing seismic data and algorithms. A Ph.D. in Engineering and/or a strong background in Geophysics is required. Salary: $65,764 per annum. Apply: Department of Geology, Uni- versity of Southern California, Los Angeles, CA 90089-1555. EOE.

RESEARCH POSITION

DEPARTMENT OF PSYCHIATRY

Mount Sinai School of Medicine seeks an individual with an interest in molecular genetics of psychiatric disease. The successful candidate will possess a Ph.D. and/or M.D. degree and documented experience in YAC construction and positional cloning. The ability to function independently with a large collaborative group of both basic and clinical scientists is essential. Faculty rank and salary commensurate with experience.

Responsibilities: Study cardiovascular, a brief letter describing research interests and three letters of recommendation to: Larry D. Altstiel, M.D., Ph.D., Department of Psychiatry, Mount Sinai School of Medicine, Box 1229, One Gustave L. Levy Place, New York, NY 10029-6574. Fax: (212) 831-1947. An Equal Opportunity Employer.

PULMONARY PHARMACOLOGIST

A PULMONARY PHARMACOLOGIST is required who will be responsible for the development of new anti-asthma drug from the early research stage to clinical trials. The candidate should have several years of experience in the pharmaceutical industry in the area of anti-asthma drug development. Experience and knowledge of drug filing with FDA is required. Salary will be $50,000 to $70,000 per annum plus benefits depending on experience. Please send résumé with the names of three references to: Personnel Department, Infla-Zyme Pharmaceuticals Ltd., 800-777 West Broadway, Vancouver, B.C., Canada V5Z 4J7.

BIOCHEMIST/MOLECULAR BIOLOGIST

The National Heart, Lung, and Blood Institute is recruiting for a senior postdoctoral (salary range $37,500 to $46,500, depending on experience) to study ADP-riboseylation reactions in mammalian cells. The candidate should have broad experience in molecular biology, biochemistry and protein chemistry. Contact: Dr. Joel Moss, Laboratory of Cellular Metabolism, Building 10, Room SN507, 9000 Rockville Pike, National Institutes of Health, Bethesda, MD 20892. U.S. citizenship is required. NIH IS AN EQUAL OPPORTUNITY EMPLOYER.

SENIOR SCIENTIST—COAGULATION REAGENT DEVELOPMENT

An immediate growth opportunity exists for an experienced person in the area of product development of coagulation reagents. The incumbent should have three to five years experience in IVD product development and be a self-starter. Knowledge of FDA cGMP and S10(k) regulations is required. The firm offers competitive salaries, stock options, attractive midwestern location with good housing and schools. All inquiries will be held in confidence and should be addressed to: Box 46, Science Classified Advertising, 1333 H St., N.W., Washington, D.C. 20005.

ASSISTANT RESEARCH SCIENTIST—

TO STUDY EFFECTS OF POST-TRANLATIONAL MODIFICATION ON SIGNAL TRANSMISSION BY FATTY ACID BINDING AND STEROL CARRIERS, PROTEINS, AND PHOSPHOLIPIDS. EDUCATION: Ph.D. in Molecular biology, Biochemistry, or related field. Experience in phospholipid and cell culture desirable. Send curriculum vitae and 3 letters of reference to: Dr. F. Schroeder, Department of Physiology and Pharmacology, Texas Veterans Medical Center, Texas A&M University, College Station, TX 77845-4466. An Equal Opportunity/Affirmative Action Employer.
ANNUAL REPORT OF
MIZUTANI FOUNDATION
RESEARCH GRANT FOR GLYCOSCIENCE

In 1993, Mizutani Foundation for Glycoscience received 326 research grant applications from 31 countries. After a careful evaluation for scientific merit, potentiality, and feasibility, the foundation selected 22 of the applications (in which two* are collaborative studies) and awarded them a total of 150,000,000 yen. The winners of this year’s grants are (in alphabetical order):

1) Dr. Bremer, Eric G.; Chicago Inst. for Neurosurgery & Neuroresearch, USA; “Gangloside GM3 inhibition of the EGF receptor”
2) Dr. Crocker, Paul R.; University of Oxford, John Radcliffe Hospital, UK; “Molecular characterization of sialoadhesins and their carbohydrate ligands”
3) Dr. Eichinger, Daniel J.; New York University Medical Ctr., USA; “Structure/function study of trypanosome trans-sialidase”
4) Dr. Endo, Masahiko; Hiroaki University, Japan; “Glycotechnological studies on the elongation of glycosaminoglycan chains”
5) Dr. Falck, John Russell; Univ. Texas Southwestern Medical Ctr. at Dallas, USA; “Synthesis of inositol phosphates, glycosides, and phospholipids”
6) Dr. Freeze, Hudson H.; La Jolla Cancer Research Foundation, USA; “Mapping glycosyl transferases in the functional Golgi”
7) Dr. Fukuda, Minoru; La Jolla Cancer Research Foundation, USA; “Molecular identification of L-selectin ligands”
8) Dr. Furukawa, Koichi; Nagasaki University, Japan; “Regulatory mechanism of the GM2/GD2 synthase gene expression”
9) Dr. Galili, Uri; The Medical College of Pennsylvania, USA; “Reactive sites and regulation of primate alpha 1, 3 galactosyltransferase”
10) Dr. Gross, Kenneth C.; USDA, Agricultural Research Service, Beltsville, MD, USA; “Biological activity of unconjugated N-glycans in ripening tomato fruit”
11) Dr. Inoue, Yasuo; University of Tokyo, Japan; “Commonality and function of N-glycanase-catalyzed de-N-glycosylation of glycoproteins”
12) Dr. Ito, Makoto; Kyushu University, Japan; “Homeostatic regulation of cell-surface glycosphingolipids”
13) Dr. Joziasse, David H.; Vrije Univ., The Netherlands; “Fucosyltransferases: Three-dimensional structure and substrate specificity”
14) Dr. Kelm, Soerge; Christian Albrechts University at Kiel, Germany; “Molecular characterization of sialoadhesins and their carbohydrate ligands”
15) Dr. Kornfeld, Stuart A.; Washington University School of Medicine, USA; “Phosphotransferase recognition domain on the lysosomal hydrolase cathepsin H”
16) Dr. Kreibich, Gert; New York University Medical Ctr., USA; “Function and structural organization of the subunits of the oligosaccharyl transferase”
17) Dr. Lindahl, Ulf; Uppsala University, Sweden; “Enzymes with dual catalytic activities in the biosynthesis of heparin/heparan sulfate”
18) Dr. Linhardt, Robert J.; University of Iowa, USA; “Chemo-enzymatic synthesis of heparin and oligosaccharides from chiral synthons”
19) Dr. Marcus, Donald M.; Baylor College of Medicine, USA; “Antibodies against gangliosides in motor neuron diseases”
20) Dr. Nyholm, Per-Georg; University of Göteborg, Sweden; “Conformation and recognition of carbohydrates at the cell surface”
21) Dr. Olwin, Bradley Bruce; Purdue University, USA; “Role of FGF receptor heparan sulfate binding domain in FGF signaling”
22) Dr. Suzuki, Yasuo; University of Shizuoka, Japan; “Sialyl-sugar chain recognition by influenza viruses during their evolution”

Mizutani Foundation for Glycoscience: Sen-i Kaikan, 1-11, Nihonbashi-honcho 3-chome, Chuo-ku, Tokyo 103, Japan. The method of application for the next year grants will be announced in this Journal in March, 1994.
The International Council of Scientific Unions (ICSU) invites applications for the position of Executive Director of the International Geosphere-Biosphere Programme. The IGBP is a non-governmental international research programme, organized under the aegis of ICSU, dealing with the causes and effects of global environmental change. There are currently about 70 IGBP National Committees and the national research expenditure for component parts of the programme is estimated to reach ca. US$500 million annually. The IGBP, together with the World Climate Research Programme (WCRP) and the Human Dimensions of Global Environment Change Programme (HDP) provide the focused international scientific effort needed to reduce uncertainties relating to natural and man-made global changes.

Under the direction of the Scientific Committee for the IGBP (SC-IGBP) and its Officers, the Executive Director will be responsible for guiding the development and implementation of the programme. In particular, the Executive Director will:

- facilitate achievement of IGBPs mandate by the international scientific community
- collaborate with the IGBP Core Projects and Framework Activities to achieve maximum integration of the component parts
- ensure effective links between IGBP and other relevant research programmes, especially HDP and WCRP, as well as further strengthening links to the international policy community
- supervise the scientific, administrative and financial staff of the Secretariat (8-10 persons)

The successful candidate will

- have a distinguished international research reputation in a relevant natural science discipline
- be knowledgeable about the international global change research effort
- have experience of international scientific collaboration including both governmental and non-governmental organizations
- be prepared to conduct extensive travels to all parts of the world
- possess a complete command of written and spoken English; knowledge of other languages is an advantage

The Executive Director, appointed by ICSU for a 3-year period, renewable, will be an employee of the Royal Swedish Academy of Sciences in Stockholm, where the IGBP Secretariat is located. The position should be filled on 1 July, 1994 or as soon as possible thereafter. The salary is negotiable and will take due account of the experience and qualifications of the candidate and the costs and benefits of living in Stockholm.

Letters of application with a curriculum vitae and the names of three referees, should be received no later than 25 March 1994 by the Executive Director of ICSU, 51 boulevard de Montmorency, F-75016 Paris 16, France. Fax: +33-1-4288 8431. Further information on the IGBP and its Secretariat can be provided by either Professor Peter S. Liss, Chairman SC-IGBP, Tel. +44-603-59 25 63, Fax. +44-603-50 77 14 or Professor Thomas Rosswall, the current Executive Director, Tel. +46-8-16 64 48, Fax. +46-8-16 64 05.
GLAXO INSTITUTE FOR MOLECULAR BIOLOGY

Research at the Glaxo Institute in Geneva is directed towards the discovery of novel molecular mechanisms that can be used as drug targets to treat serious diseases. In particular, research is focused on the CNS, allergies and inflammatory conditions. We have an outstanding opportunity for a postdoctoral position as a

CELL CULTURE SCIENTIST
to work on large scale recombinant protein production.

The successful applicant will work in an interdisciplinary environment of molecular biologists, protein chemists and cell biologists, participating in different research projects requiring recombinant proteins. His primary duties will cover cell culture fermentations with emphasis on process optimization and development. Informal enquiries should be directed to Dr. Alain Bernard (arbo578@gcrs.co.uk) or (+41 22 706 9642).

The Institute has a strong publication record, which the appointee will be expected to maintain. Attendance and presentation at scientific meetings is encouraged, as well as collaborative research with academic groups.

We offer an excellent compensation and benefits package and significant opportunities for career development. Geneva, situated in a very attractive part of Europe, has many advantages as a place to live. The Institute for Molecular Biology is part of the Glaxo group, one of the world’s most successful healthcare companies which has an outstanding reputation for the quality of both its research and products.

If you are interested in this position, please send your curriculum vitae with a list of publications and the names of three referees to: Rita Gloor, Personnel Manager, Glaxo Institute for Molecular Biology S.A., 14, chemin des Aulx, 1228 Plan-les-Ouates, Switzerland.

EXPLORATION OF THE UNIVERSE
a challenge for Europe and its best scientists

The European Southern Observatory (ESO) is an international organisation responsible for the most advanced astronomical research in the southern hemisphere. The eight Member States of the ESO are Belgium, Denmark, France, Germany, Italy, the Netherlands, Sweden and Switzerland.

As the prime European astronomical centre, ESO occupies a leading position in the world’s scientific community. Its research work is of great value to many areas of science and industry. The Very Large Telescope (VLT) is a 4000 MEC instrument to be built by European industry and installed in Chile. ESO is responsible for the conceptual design, engineering design and construction of some essential parts, as well as for the overall programme management.

These are exceptional opportunities for those seeking creative involvement in international scientific environment. Applications are invited for the following positions: all initially based at the ESO headquarters in Garching near Munich, Germany. Transfer or extended stays at the observatory in La Silla, Chile, will be required at a later stage.

ASTRONOMER (GERMANY) (ref. ESD206)

Profile: applicants should have a Ph.D in Astronomy or its equivalent and several years experience in quantitative analysis of high-quality imagery and/or spectroscopy. An excellent publication record will reflect their achievements in this field. The ability to provide scientific input to the work of technical staff is essential and knowledge of optical instrument design and/or CCDs will be an asset.

Responsibilities: ESO is currently forming the team which will be responsible for the operation of the New Technology Telescope (NTT) and the upgrade of its control system to Very Large Telescope (VLT) standards. The successful candidate will be an NTT team member whilst spending 50% of his/her time on a significant programme of personal research. In close collaboration with other NTT team members, the MIDAS group and the ESO science archive, he/she will develop and implement calibration plans and on-line calibration utilities for the ESO Multi-Mode Instrument (EMMI) and the Superb Seeing Imager (SUSI) as well as supervising their remote observing activities. He/she will assist the NTT team leader in all matters, especially coordination between Garching and La Silla.

Location and duration: the position is based in Garching near Munich in Germany with regular visits to the La Silla Observatory in Chile. This is a tenure track position which is normally offered for a period of 3 years, renewable for a second 3 year period. Tenure may be granted during the second term of the contract.

ASTRONOMER (CHILE) (ref. CAS201)

Profile: applicants should have a Ph.D in Astronomy or its equivalent and several years experience in quantitative analysis of high-quality imagery and/or spectroscopy. An excellent publication record will reflect their achievements in this field. The ability to provide scientific input to the work of technical maintenance staff is essential and knowledge of optical instrument design and/or CCDs will be an asset.

Responsibilities: ESO is currently forming the team which will be responsible for the operation of the New Technology Telescope (NTT) and the upgrade of its control system to Very Large Telescope (VLT) standards. The successful candidate will be an NTT team member whilst spending 50% of his/her time on a significant programme of personal research. He/she will regularly check the performance and quantitative calibration of the NTT, the ESO Multi-Mode Instrument (EMMI) and the Superb Seeing Imager (SUSI), provide meaningful feedback to the technical maintenance staff and assist visiting astronomers with their use.

Location and duration: the position is based at the La Silla Observatory, Chile. This is a tenure track position which is normally offered for a period of 3 years, renewable for a second 3 year period. Tenure may be granted during the second term of the contract.

Remuneration: all these posts will be commensurate with background, experience and family status. It will be compatible with the salaries paid by intergovernmental organisations.

Although preference will be given to nationals of ESO Member States, this should not discourage suitably qualified applicants from other countries from applying. Positions are open to suitably qualified women and men. It is essential that all candidates have an excellent command of English. A knowledge of French or German would be an asset.

Applications with a brief c.v., including 3 letters of reference (no supporting documentation unless requested) should specify the job reference and be submitted before March 15, 1994 to Personnel Administration and General Secretariat, European Southern Observatory, Karl-Schwarzschild-Strasse 2, D-85748 Garching near Munich, Germany. Tel: (89)320.06.219 or (89)320.06.438.
The University of Sydney
AUSTRALIA

Faculty of Science
POSTDOCTORAL FELLOW
Computing & Data Analysis
(Fixed-term)
Reference: No: A48/02
A skilled statistician or computer scientist with PhD in relevant area is needed to develop software, data-bases and data-analyses for development of training courses in quantitative fisheries biology. This three year-position is funded by the Fisheries Research Development Corporation in association with the Institute of Marine Ecology. Appointment is subject to funding.
Salary: A$36,285 - A$38,950 per annum.

Quantitative Fisheries Training Unit
SENIOR RESEARCH FELLOW
Fisheries Population Dynamics
(Fixed-term)
Reference: No: A48/01
An experienced fisheries scientist with PhD in relevant area is needed for a three year position (funded by Fisheries Research Development Corporation) to develop curricula and interactive teaching programs in population dynamics stock assessment, quantitative research and problem-solving techniques for Australian fisheries laboratories. Applicants must have experience in research in fisheries dynamics and skills in teaching and course development. This exciting project is with the Institute of Marine Ecology. Appointment is subject to funding.
Salary: A$50,225 - A$57,913 per annum.

Membership of a superannuation scheme is a condition of employment for new appointees. If you are interested in applying and for further details about both positions please contact Professor A J Underwood on telephone (612) 922 2598, or fax (612) 922 0612.
Applications, quoting Reference No, including curriculum vitae and the names, addresses and phone nos of two referees to The Personnel Officer, Personnel Services (Team A/1073), The University of Sydney, New South Wales 2006 by 4 March 1994. Expressions of interest may be faxed to Personnel Services on (612) 922 4318 by the closing date with the full application to follow by mail.

Equal employment opportunity and no smoking in the workplace are University policies. The University reserves the right not to proceed with any appointment for financial or other reasons.

UNIVERSITY OF LEICESTER

CENTRE FOR MECHANISMS OF HUMAN TOXICITY
Research Fellowships
Opportunities for Young Independent Scientists

The Centre for Mechanisms of Human Toxicity is an interdisciplinary research centre comprising the MRC Toxicology Unit and groups led by members of University staff. The remit of the Centre includes the investigation of specific toxicological problems, studies of underlying biochemical mechanisms of toxicity, and research in basic biology and chemistry that has the potential to contribute to studies of human toxicity. Our overall goal is to contribute to human health by improving risk assessment. Current work is concentrated in the following broad areas:

- Chemical carcinogenesis; toxicology of cancer chemotherapeutic agents; mechanisms of cell death, neurotoxicology; immunotoxicology; metabolism.
- There are two full-time research positions, available immediately for a fixed period of five years, intended to provide exceptional young scientists with the opportunity to establish their own research group for the first time. Salary will be on the Research and Analogous Grade IA or II scales (£12,828-£25,107). Some 'start-up' funds will be provided, but the successful applicants will be expected to obtain grant funding to support their work. The Centre is exceptionally well-equipped for work across a wide range of biology. Applications are invited from people with interests in any of the above areas. We are particularly keen to attract applications from people with interests in Chemical toxicology/Biological chemistry (Ref: RF94/1) or Immunotoxicology/Immunology (Ref: RF94/2).
- Applications, including a curriculum vitae, list of publications and a short (2 page) research proposal, should be sent to Professor G. C. K. Roberts, Director, Centre for Mechanisms of Human Toxicity, University of Leicester, Froggitt Buildings, PO Box 138, Lancaster Road, Leicester LE1 9HN, UK, to arrive by 18 March 1994. Preliminary enquiries are encouraged, and should be made to Professor Roberts (0533-525533, email: nmr@leicester.ac.uk) or Dr Simon Dyer (Resources Manager, 0533-525566, email: shd2@leicester.ac.uk).

Medical University of South Carolina
Vice President for Academic Affairs and Provost

The Medical University of South Carolina invites nominations and applications for the position of Vice President for Academic Affairs and Provost.

The Vice President for Academic Affairs is administratively responsible to the President for all academic matters. The position is responsible for the continuing planning for education, research and clinical services. The deans of the six colleges, the directors of the academic support units and the Executive Director of the Medical Center report through this office to the President of the University. In the absence of the President, this individual acts as the chief executive officer.

The Medical University of South Carolina comprising six colleges, Dental Medicine, Graduate Studies, Health Professions, Medicine, Nursing, and Pharmacy, as well as the University Medical Center, is the core of the state's largest medical complex. The campus, located in the heart of Charleston, occupies over 50 acres and 65 buildings. MUSC has a $700 million operating budget, over 8,000 employees, over 800 faculty members, and enrolls 2,300 students with 800 interns and residents.

Through affiliations and special programs, the Medical University coordinates the health education activities of numerous regional hospitals and provides opportunities for its students to acquire training in various community settings.

Qualifications preferred: Advanced degree. Demonstrated achievement in a scholarly field. Record of accomplishment in a leadership position at an academic health sciences center. Awareness and appreciation of academic values that are central to such an institution. Ability to represent the university effectively in external forums.

The Vice President for Academic Affairs will be an active leader in the development and advancement of the MUSC mission. It is expected that the candidate will be a visionary leader who is committed to the ideals of collegiality. In doing so this individual will have the capacity to value the importance of all six colleges and each unit of the University.

Applicants should submit a current curriculum vitae and a letter addressing their interest and suitability for the position. The position is available beginning July 1, 1994. Applications will be accepted until a candidate is chosen.

Dr. Thomas G. Baster, Chair
Search Committee for the Vice President for Academic Affairs
Medical University of South Carolina
171 Ashley Avenue
Charleston, South Carolina 29425-3001

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RESEARCH UPDATE

Cyanamid now ranks sixth largest global crop protection company.

American Cyanamid Company's recent acquisition of Shell's international crop protection business has enhanced our standing in the global agricultural market raising our status from 10th to 6th largest. This development promises a significant increase in earnings and in the research and development of new products.

Research Microbiologist

Using the latest technology, you will plan and execute microbiological assays on antibiotics in formulated matrices and animal tissues. Your work will involve writing standard operating procedures, methods, validation plans for formal reports and interpreting results; calibrating and maintaining analytical instrumentation; supervising technical staff as assigned, and observing safe laboratory practices and good housekeeping.

We require a PhD in microbiology or related field with a background in microbiological technical principles and techniques or equivalent. A fundamental grounding in microbiology, plate assay experience and regulatory/FDA exposure are critical. Strong oral and written communication skills and PC familiarity are needed.

American Cyanamid Company offers an excellent compensation and benefits package which includes 401(k) savings plan, flex-time work schedules and a convenient location one hour from New York City or Philadelphia. To explore this opportunity SEE US AT PITTCON, or forward your resume to: Employment Office, Dept. SJC, American Cyanamid Company, Agricultural Research Division, P.O. Box 400, Princeton, NJ 08543-0400. An Equal Opportunity Employer.

BIOMEDICAL ENGINEER

SmithKline Beecham Pharmaceuticals, a worldwide leader in pharmaceutical research, has an opportunity for a Biomedical Engineer to join its Analytical Sciences Department. The selected individual will develop methodology for the assay of biopharmaceuticals by immunochemical and electrochemical techniques. The individual will perform SDS-PAGE, IEF, Western blotting ELISA and other immunoassays.

The selected candidate will have a Ph.D. in biochemistry or immunology or related discipline with at least 2 years of experience in immunochemical assay development or an MS in the same area with a minimum of 6 years of experience. Additional experience in preparing immunoreagents and assay of mid-process samples and drug products for identity and impurities would be highly desirable.

Located in our state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation package. Interested applicants should forward resumes to: SmithKline Beecham Pharmaceuticals, Employment Administrator, #H0319, PO Box 1539, King of Prussia, PA 19406-0539. We are an Equal Opportunity Employer, M/F/D/V.

POSTDOCTORAL FELLOWSHIP

Cell Adhesion Biology

Boehringer Ingelheim Pharmaceuticals has developed a world-renowned program in Cell Adhesion biology. We currently have an opening for a Postdoctoral Fellow with graduate research training in Leukocyte/Endothelial Cell Biology or Receptor Biochemistry. Familiarity with cell adhesion biology and molecular biology is helpful. This fellowship will involve basic research on leukocyte-endothelial cell interactions and structure/function relationships of cell adhesion receptors. Individuals who are highly motivated and have strong interpersonal and communication skills are desired.

Located on a campus-like setting in a beautiful area in Western Connecticut, we offer state-of-the-art resources, an abiding commitment to research and a dynamic team-oriented environment where individuals give life to their visions.

For consideration, send c.v. and a brief cover letter to: Dept. JC-15, Boehringer Ingelheim Pharmaceuticals, Inc., 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877. We are an equal opportunity employer M/F/D/V. As a progressive healthcare company, we have a no-smoking environment.
PHARMACEUTICAL SCIENCES

As part of an expansion resulting from the recently implemented entry level Pharm.D. curriculum, six Assistant Professor or higher level positions are immediately available in the Department of Pharmaceutical Sciences at the University of Maryland School of Pharmacy:

BIOTECHNOLOGY-DERIVED PRODUCTS - Chemical and/or formulation approaches to the design, delivery and/or targeting of peptides, peptidomimetics, proteins or oligonucleotides.

IMMUNOLOGY - Receptors, cell signaling, cell adhesion, drug design related to immune function and modulation, or catalytic antibodies.

MEDICINAL CHEMISTRY - Organic synthesis related to medicinal agents. A focus on cancer, immunology, neurochemistry or peptidomimetics is especially desirable.

MOLECULAR PHARMACOLOGY - Molecular aspects of neuropharmacology or cancer. Eucaryotic expression expertise preferred. Cell signaling, oncogenes, and molecular biology of receptor systems.

SOLIDS FORMULATION - Design, formulation, manufacture, and evaluation of solid dosage forms with access to our registered GMP manufacturing facility.

BIOCHEMICAL PHARMACOLOGY - Signal transduction mechanisms fundamental to cell processes such as secretion, cell adhesion or endogenous mechanisms of cell injury.

Teaching requirements are in biotechnology, clinical chemistry, immunology, nutrition, medicinal chemistry, pharmacokinetics, pharmacology, and graduate courses for the Ph.D. program areas of biomedical chemistry, pharmacology, and pharmaceutical sciences.

Postdoctoral experience is desirable. Applicants should submit an indication of which position they are applying for, their CV, and research plan to Dr. Patrick Callery, Pharmaceutical Sciences Department, University of Maryland, 20 North Pine St., Baltimore, MD 21201. Review of applications will begin April 1, 1994. Applications will continue to be received until the positions are filled.

The University of Maryland is an AA/EO/ADA employer.

POSITION ANNOUNCEMENT #918010-REVISED

TITLE: DEAN FOR RESEARCH AND DIRECTOR, FLORIDA AGRICULTURAL EXPERIMENT STATION

LOCATION: INSTITUTE OF FOOD AND AGRICULTURAL SCIENCES UNIVERSITY OF FLORIDA GAINESVILLE, FLORIDA

SALARY: COMMENSURATE WITH QUALIFICATIONS AND EXPERIENCE

POSITION OPEN TO: June 1, 1994

The Dean for Research administers and provides statewide leadership for the food, agricultural and human and natural resources research programs of the University of Florida’s (UF) Institute of Food and Agricultural Sciences (IFAS). UF/IFAS encompasses 20 departments and a School of Forest Resources and Conservation on the Gainesville campus and 13 Research and Education Centers located throughout the state. The problems and opportunities associated with Florida’s unique environment, diverse food and agricultural systems, sensitive nature ecosystems of natural resources, and rapidly expanding human and urbanization require a programmatic leader who can work with UF administrators and faculty, state leaders in agricultural and natural resources industries and government agencies. Because most faculty in UF/IFAS hold joint appointments in research, teaching and/or extension, the Dean for Research must work closely with the Deans for Extension, Academic Programs and College of Veterinary Medicine. In addition to programmatic leadership, specific responsibilities include the hiring, placement and tenure and promotion of research faculty and staff, decisions on budget and salaries, and implementation of the Affirmative Action Program in the Florida Agricultural Experiment Station.

Applicants for the position should have an exemplary record of leadership and administrative skills, as well as a commitment to lead UF/IFAS research to national prominence and committed service to the State of Florida. Ph.D. in food, agricultural, natural resources or closely related scientific field required. Outstanding research background and demonstrated competency in program leadership, fiscal planning, and personnel management including affirmative action and work force diversity.

Applicants for this position are asked to submit a resume of education, experience and publications, and the names and addresses of five (S) references. Those wishing to nominate candidates should do so by contacting the Search and Screen Committee Chair by May 2, 1994. Women and minorities are encouraged to apply.

REFER TO POSITION # 918010-REVISED

SUBMIT APPLICATIONS, NOMINATIONS AND INQUIRIES TO:
Dr. Charles A. Conover, Chair
Search Committee for the Dean for Research
University of Florida
P.O. Box 110180
Gainesville, FL 32611

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In Europe: Call Annemarie Vis at (+44) 0223 302067, or fax: (+44) 0223 302068.

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Special Issue

Women in Science

11 March 1994

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The Laboratory Media Office Center, a coalition of women-researcher groups, encourages female researchers to apply for open positions.
POSITIONS OPEN

PSYCHIATRISTS—Mount Sinai School of Medicine, Department of Psychiatry, is seeking to recruit psychiatrists for inpatient, OPD and Emergency Room positions. Opportunity to supervise Residents and engage in academic activities offered. Salary and faculty rank are commensurate with academic/clinical credentials. Send curriculum vitae to: Kenneth L. Davis, M.D., Professor & Chairman, Department of Psychiatry, Mount Sinai School of Medicine, Box 1230, Gustave L. Levy Place, New York, NY 10029-6574. FAX: (212) 360-2344. An Equal Opportunity Employer.

SCIENTIST

Position in wound healing research. Candidate will lead an R&D project focusing on the use of drugs and biologics to speed healing and prevent infection and for designing experiments to evaluate the effects of local delivery of drugs and biologics. Ph.D. or M.D. required with proven track record of successful research in the area of wound healing. Postdoctoral training and experience, exposure to growth factors and in product development a plus. Submit curriculum vitae with three references and addresses to: Dr. William Drohan, HOLLAND LABORATORY, American Red Cross, 15601 Grabb Branch Way, Rockville, MD 20855. An Equal Opportunity Employer, M/F/D/V.

MOLECULAR BIOLOGISTS

ASTRAL INC., a newly formed company, has research and development programs to treat AIDS, cancer and other diseases. These programs require the support of experienced Ph.D. and M.S./B.S.-level molecular biologists. Successful applicants will work with a team of biochemists, cell biologists and immunologists to implement the company's recombinant vaccine effort. These positions will be influential in guiding the progress of the programs and shaping the future of the company. Astra is located in Otisville, New York, about 70 miles from New York City in the scenic Hudson Valley. Please forward curriculum vitae with names and telephone numbers of references to: Philip Dehazey, Ph.D., Astral Inc., P.O. Box 567, Otisville, NY 10963.

RESEARCH SCIENTIST

Isolate and characterize bone cells; evaluate interaction between bone and extracellular matrix; establish co-culture assays; biochemical analysis of unknown protein factors produced by bone cells. Required: Ph.D. or D.M.Sc. in Biology or related. Experience in cell biology and biochemistry of bone; primary bone cell cultures with emphasis on long-term bone marrow cultures; co-culture assays with progenitors and cloned stromal cell lines using novel techniques; light and electron microscopy including scanning electron microscopy; enzyme histochemistry and resorption assays pertaining to bone cells; immunological assays including CFU-c assays, co-cultivation assays, histology, immunohistochemistry, morphometry and enzymatic assays in bone cell biology. Full-time; $50,000 per year. Job site and interview in San Diego, California. Send this ad and resume to: Job Number DC-16851, P.O. Box 269065, Sacramento, CA 95826-9065.

ANNOUNCEMENTS

BURROUGHS WELLCOME FUND AWARDS

Hitchings–Ellion Fellowships provide postdoctoral research opportunities for U.S. Scientists to work in the United Kingdom. Each award provides 3 years of support—2 years in the U.K. and 3rd year in the United States. Annual stipend of $35,000, research expenses of $7,500 per year, travel, and up to $3,000 annual meeting allowance. All areas of biomedical, biological and clinical research eligible. Application Deadlines are March 10 and September 10, 1994.

Welcome Research Travel Grants provide short-term travel to the U.K. (2 weeks to 3 months) for U.S. citizens who are full-time, doctoral degree researchers in biomedical sciences. No deadline. Contact: The Burroughs Wellcome Fund 4709 Creekstone Drive, Suite 100 Morrisville, NC 27560-9771 (919) 991-5100 Telephone (919) 941-5884 FAX

COURSES AND TRAINING

MOLECULAR TECHNIQUES IN AQUATIC RESEARCH

June 27–July 16, 1994

An intensive workshop utilizing aquatic model organisms to demonstrate molecular biological techniques. Cost: $1600. Contact: Barbara Wimpee, NIEHS Marine and Freshwater Biomedical Core Center, Great Lakes Research Facility, 600 East Greenfield Avenue, Milwaukee, WI 53204. Telephone: (414) 382-1726 FAX: (414) 382-1705. Dr. Charles Wimpee, Course Director, Telephone: (414) 229-6881, Internet: cwimpee@csd4.csd.uwm.edu.

MEETINGS

SCIENTIFIC (MIS)CONDUCT AND SOCIAL (IR)RESPONSIBILITY

May 27, 1994. A conference at Indiana University-Bloomington intended to foster discussion between scientists and ethicists on issues of the proper conduct of scientific research and the responsibilities of scientists to society. Keynote address: Rosemary Chalk, Senior Program Officer, National Academy of Sciences. Also "Science as a Socially Responsible Community," Mark S. Frankel, Director, AAAS Scientific Freedom, Responsibility, and Law Program; and a panel discussion on "Teaching Responsible Science." No conference fee; pre-register by April 15, 1994. Poynter Center, 410 North Park Avenue, Bloomington, IN 47405; Telephone: 812/855-0261; FAX: 812/855-3313; POYNTER@INDIANA.EDU.

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