Personnel Placement

SCIENCE publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing; no alteration allowed after deadline. A minimum of two weeks before due date of issue in which ad appears. Also, personal advertisements are accepted with the understanding that the advertiser does not discriminate among applicants on the grounds of sex, religion, age, color, national origin, handicap, or sexual preference.

LINE CLASSIFIED ADVERTISING DEADLINES: Tuesday, 10 a.m. 2 weeks prior to issue date (mailed on issue date).

positions wanted

Environmental/Toxicology/Health Effects of Air Pollution/Immunotoxicology. Medical graduate with 3 years of postdoctoral research and some clinical experience. Available immediately for position in industry/research/administration. Box 138, SCIENCE.

Ph.D. (B.S. mathematics, M.I.T.) with excellent computing (Fortran primarily), statistical data analysis, mathematical models, social status, and writing skills seeking challenging research position. Box 140, SCIENCE.

Immunologist, Ph.D. Academic and biotechnology experience in hybridoma technology, monoclonal antibodies, cellular immunity, and large scale cell culture. Excellent background in protein purification. Seeking position in academic/industrial collaborative research and development. Box 134, SCIENCE.


Positions Open

ASSISTANT CHIEF MEDICAL DIRECTOR FOR EPIDEMIOLOGY AND EMERGENCY CARE. The Veterans Administration (VA) invites applications for the position of Assistant Chief Medical Director for Geriatrics and Extended Care in Washington, D.C. The scope of the position includes (i) evaluating all programs carried out by the VA in the fields of geriatrics and extended care and serving as the principal advisor to the Chief Medical Director with respect to these programs; (ii) developing and implementing approved plans, policies, and professional standards for these nationwide VA programs; and (iii) serving on the subcommittee on geriatrics and extended care with the National Institutes of Health, National Academy of Sciences, National Council on Aging, Department of Health and Human Services, and the Administration on Aging. The search committee desires to identify highly qualified candidates. Federal statute requires that the position be filled by a U.S. citizen, preferably a physician trained in, or having suitable experience in, geriatrics. The VA is an Equal Opportunity/Affirmative Action Employer.

Letters of application or nomination must be received by 2 November 1987, and should be sent to: Robert R. Boone, D.D.S., Assistant Chief Medical Director for Dentistry (16); Chairman, Sarak Committee; Veterans Administration Central Office, Washington, DC 20420. Telephone: 202-333-2882/2883.

ASSISTANT DEAN FOR RESEARCH AND PROGRAM DEVELOPMENT

Experienced researcher with ability to assist faculty and students in the development of innovative initiatives and to guide the development of innovative initiatives. Large urban university affiliated with the nation’s fourth largest hospital. Major responsibilities include developing research programs. Medical College of Virginia/Virginia Commonwealth University has well established baccalaureate, master’s programs in nursing and new Ph.D. program in nursing administration and clinical science—immunology and microbiology. Ph.D. in nursing or related field and nursing education experience. Contact: Dr. John Kirk Henry, Virginia Commonwealth University School of Nursing, MCV Station, Box 567, Richmond, VA 23298-0587. An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.
**POSITIONS OPEN**

**ANIMAL PHYSIOLOGY**

The Department of Biology at the University of Utah has an opening for a regular faculty appointment (ASSISTANT PROFESSOR) in animal physiology. An invertebrate (especially insect) physiologist is preferred, but outstanding candidates in vertebrate physiology are also encouraged. Applicants should have a Ph.D. and a proven record of research accomplishments. Teaching experience is strongly desired. The University of Utah is an Equal Opportunity/Affirmative Action Employer.

**POSITIONS OPEN**

**BRANDEIS UNIVERSITY**

**ASSISTANT PROFESSOR GENETICS, MOLECULAR BIOLOGY**

The Rosenthal Basic Medical Sciences Research Center and Department of Biology at Brandeis University invites applications for a tenure-track position with an anticipated start date of September 1, 1988. Applicants should have a Ph.D. and a strong background in research. Teaching experience is desirable but not required. The University of Brandeis is an Equal Opportunity/Affirmative Action Employer.

**POSITIONS OPEN**

**ASSISTANT PROFESSOR OF MOLECULAR BIOLOGY**

The Department of Biology at the University of Dayton is accepting applications for a tenure-track position at the level of assistant professor. Teaching responsibilities include both teaching and research. Applicants must have a Ph.D. and a strong background in research. The University of Dayton is an Affirmative Action/Equal Opportunity Employer.

**POSITIONS OPEN**

**ASSISTANT PROFESSOR OF ANATOMY**

The Department of Anatomy at Vanderbilt University invites applications for a tenure-track position at the level of assistant professor. Teaching responsibilities include both teaching and research. Applicants must have a Ph.D. in a life science area and demonstrated teaching ability. The position is available as of September 1, 1988. The University of Vanderbilt is an Equal Opportunity/Affirmative Action Employer.

**POSITIONS OPEN**

**ASSISTANT PROFESSOR OF MOLECULAR BIOLOGY**

The Department of Biology at the University of Dayton is accepting applications for a tenure-track position at the level of assistant professor. Teaching responsibilities include both teaching and research. Applicants must have a Ph.D. and a strong background in research. The University of Dayton is an Affirmative Action/Equal Opportunity Employer.

**POSITIONS OPEN**

**ASSISTANT PROFESSOR OF MOLECULAR BIOLOGY**

The Department of Biology at the University of Dayton is accepting applications for a tenure-track position at the level of assistant professor. Teaching responsibilities include both teaching and research. Applicants must have a Ph.D. and a strong background in research. The University of Dayton is an Affirmative Action/Equal Opportunity Employer.
ASSOCIATE RESEARCH NUTRITIONIST OR PHYSICAL ANTHROPOLOGIST—This is an academic position in the Human Nutrition Department, University of California, Davis, available immediately. The position involves research in nutritional aspects of human development, including the role of maternal nutrition in fetal and infant growth and development. The position offers a competitive salary and excellent benefits, including health and dental insurance. Interested candidates should submit a curriculum vitae and three letters of recommendation to: Dr. Jane Doe, Department of Human Nutrition, University of California, Davis, CA 95616. Applications will be accepted until the position is filled.

ASSOCIATE OR FULL PROFESSOR

The Department of Pharmacology at Case Western Reserve University has a position available for a scientist with expertise in drug discovery and development. The successful candidate will be expected to develop and lead an active program of research in an exciting area of molecular/cellular pharmacology. The specific research area is flexible. Applicants/nominees are expected to have a strong commitment to research interests and the names of three referees should be sent to: Dr. John Doe, Department of Pharmacology, School of Medicine, Case Western Reserve University, Cleveland, OH 44106. Telephone: 216-388-3393, An Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

UNIVERSITY OF ARIZONA

ASSOCIATE MEMBER

The University of Arizona College of Agriculture and Life Sciences invites applications from Ph.D. individuals with comprehensive experience in the field of plant molecular biology. The successful candidate will be expected to lead several independent research programs focusing on gene expression and regulation in biochemistry and cell biology. The University of Arizona is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE DEAN FOR RESEARCH AND ASSOCIATE DIRECTOR—The Arizona Agricultural Experiment Station. Responsibilities include assisting the Dean and Director in the development and implementation of the university’s research activities. An earned doctorate in agriculture or related sciences; professional level of attainment; demonstrated ability in research administration; leadership ability, ability to administer research programs; and an understanding of the land grant agricultural system are necessary qualifications. Applications or nominations should be sent to: Dr. Jane Doe, University of Arizona, Tucson, AZ 85721. Telephone: 602-621-3889. The position is open until 30 November 1987 or until a suitable candidate is identified. Equal Employment Opportunity/Affirmative Action Employer.

ASSOCIATE PROFESSOR/ASSOCIATE PROFESSOR—Tenure-track, to begin August 1988, in developmental genetics, neurobiology, and some introductory level biology. Responsibilities include teaching, research, and administration. Applicants are expected to have the background, ability, and motivation to develop a research program and to be eligible for tenure. Applicants should submit a letter of recommendation to: Dr. Jane Doe, University of Arizona, Tucson, AZ 85721. Telephone: 602-621-3889. The position is open until 30 November 1987 or until a suitable candidate is identified. Equal Employment Opportunity/Affirmative Action Employer.

UNIVERSITY OF SAN FRANCISCO

ASSISTANT OR ASSOCIATE SPECIALIST—S-34, Department of Agricultural Biochemistry, University of Hawaii, non tenure track, to begin 1 December 1987. Duties: Coordinate pesticide registration activities; develop field protocols; prepare SLN and tolerance petitions; conduct in-service training; supervise field and database technicians. Minimum qualifications for assistant: M.S. and one full year of graduate studies beyond M.S. and at least 3 years of experience at next lower rank or equivalent. Desirable for assistant: Experience in extension or agriculture-related work; considerable knowledge of registration process and regulations; demonstrated ability to communicate with producers, regulatory, and college personnel; understanding of principles of crop protection; ability to keep abreast of and anticipate computer applications to project management, probability analysis and dissemination of information; some familiarity with NIPRS and related databases. Minimum salary for assistant: $27,996. Minimum qualifications for associate: Ph.D. in chemistry, biochemistry, entomology, plant pathology, weevil science, or allied biological science required and at least 4 years of experience at next lower rank or equivalent. Desirable for associate: Same as assistant. Minimum salary for associate: $35,424. Send curriculum vitae and three letters of reference to: Dr. Barry M. Brennan, Chairperson, Department of Agricultural Biochemistry, 1800 East-West Road, University of Hawaii, Honolulu, HI 96822. Closing date: 15 October 1987. An Equal Opportunity Employer.

UNIVERSITY OF CALIFORNIA

BIOCHEMIST

The Department of Biology, The University of Alabama, invites applications for a tenure-track position at the ASSOCIATE PROFESSOR level to begin August 1987. Postdoctoral experience is required and the successful candidate will be expected to develop and lead an active research program in an exciting area of molecular/cellular pharmacology. The specific research area is flexible. Applicants/nominees are expected to have a strong commitment to research interests and the names of three referees should be sent to: Dr. Leslie T. Webster, Jr., Department of Pharmacology, School of Medicine, University of Western Reserve, University Circle, Cleveland, OH 44106. Telephone: 216-388-3393, An Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

BIOCHEMISTRY—University of Utah. Application deadline: 1 December 1987. The University of Utah invites applications for a TENURE-TRACK POSITION IN BIOLOGICAL CHEMISTRY. Candidates are expected to have the background, ability, and motivation to develop a research program and to be eligible for tenure. Applicants should submit a letter of recommendation to: Dr. John T. Hardman, Department of Biology, University of Kentucky, Lexington, KY 40506-0035. The University of Kentucky is an Equal Opportunity/Affirmative Action Employer.

BIOLOGY, ASSISTANT PROFESSOR/ASSOCIATE PROFESSOR—Tenure-track, to begin August 1988, in developmental genetics, neurobiology, and some introductory level biology. Research opportunities include teaching, research, and administration. Applicants are expected to have the background, ability, and motivation to develop a research program and to be eligible for tenure. Applicants should submit a letter of recommendation to: Dr. Jane Doe, University of Arizona, Tucson, AZ 85721. Telephone: 602-621-3889. The position is open until 30 November 1987 or until a suitable candidate is identified. Equal Employment Opportunity/Affirmative Action Employer.

BIOLOGY, ASSISTANT PROFESSOR/ASSOCIATE PROFESSOR—Tenure-track, to begin August 1988, in developmental genetics, neurobiology, and some introductory level biology. Research opportunities include teaching, research, and administration. Applicants are expected to have the background, ability, and motivation to develop a research program and to be eligible for tenure. Applicants should submit a letter of recommendation to: Dr. Jane Doe, University of Arizona, Tucson, AZ 85721. Telephone: 602-621-3889. The position is open until 30 November 1987 or until a suitable candidate is identified. Equal Employment Opportunity/Affirmative Action Employer.

California:

CLINICAL IMMUNOLOGIST—Progressive laboratory in 460-bed teaching hospital seeking clinical immunologist, Ph.D. degree preferred, to direct laboratory immunology in conjunction with pathologists; expected to provide professional direction in current standards of clinical laboratory immunology, with cooperation in teaching, suitable candidate is identified. Contact: B. Silberberg, M.D., Director of Laboratories, Providence Hospital, 16001 West Nine Mile Road, P.O. Box 2043, Southfield, MI 48037.

CLINICAL IMMUNOLOGIST (Microbiologist, GS-403-13; $38,727.00 per annum). The Laboratory Research Branch of the Gillis W. Long Hansen’s Disease Center announces a permanent position to join an active group of immunologists. Applicants must meet the following selective placement factors—Knowledge and ability to examine and interpret human leprosy or its absence clinically. Ability to independently plan, design, and conduct experiments utilizing a variety of immunologic techniques. Ability to independently review literature, propose testable, relevant hypotheses, and to design appropriate experiments to test these hypotheses in a systematic manner. At least 6 months of experience in laboratory investigations, publications and experience as an independent investigator in Hansen’s disease immunology is preferred. Please apply. Full authority, applicants MUST submit an SF-171, Application for Federal Employment. Please attach a concise statement of research goals, and recent reprints. For additional information, applicants should contact: Personnel Office 504-642-7771—G. W. L. Hansen’s Disease Center, Carville, LA 70722. All forms must be received before 26 December to be considered for employment by 9 October 1987. An Equal Opportunity Employer.
POSITIONS OPEN

UNIVERSITY OF OTAGO
DUNEDIN, NEW ZEALAND
CHAIR IN ZOOLOGY

Applications are invited for appointment to a chair in the Department of Zoology. Applicants should have a substantial research record in any area or areas of zoology. Field of current research in the Department includes marine biology, limnology, comparative physiology and neurobiology, parasitology, vertebrate biology, and behavioral ecology.

Salary: Professional salaries are paid within a range between NZ$268,000 to NZ$285,000 per annum.

Intending applicants may obtain information, including a statement of the department, from the Registrar, University of Otago, P.O. Box 56, Dunedin, New Zealand.


COMPARATIVE PHYSIOLOGIST/ ORGANISM BIOLOGIST

The Department of Biology, University of Pennsylvania, invites applications for a faculty position at the assistant professor level. We seek a candidate using physiological, biochemical, or molecular approaches to answer questions concerning the function of whole organisms, whether plant, animal, or microbe. Preference will be given to individuals with comparative, evolutionary, or ecological perspectives who can interact broadly within a biology department. Send curriculum vitae, including a statement of research interests, and three letters of recommendation to: Dr. Arthur Dunham, Chairman, Physiologist Search Committee, Department of Biology, University of Pennsylvania, Philadelphia, PA 19104-6018. Closing date for receipt of applications is 1 December 1987.

EVOLUTIONARY BIOLOGIST

The Department of Biology, University of Pennsylvania, invites applications for a faculty position at the assistant professor level. We seek a candidate in any area of evolutionary biology, including mechanisms of speciation and phyletic change, biochemical and molecular evolution, and population, ecological, or behavioral genetics, who will interact primarily with ecologists and evolutionary biologists within the department and at the Academy of Natural Sciences of Philadelphia. Send curriculum vitae, including a statement of research interests, and three letters of recommendation to: Dr. Robert E. Ricklefs, Chairman, Evolutionist Search Committee, Department of Biology, University of Pennsylvania, Philadelphia, PA 19104-6018. Closing date for receipt of applications is 1 December 1987.

EXECUTIVE DIRECTOR. The Marie Selby Botanical Gardens, Sarasota, Florida, seeks qualified applicants capable of developing and managing a subtropical botanical garden specializing in epiphytes with programs of research, education, and display. Financial experience is required to direct million-dollar budget. Ability to lead fund-raising efforts is essential. Available 1 September 1988. Send resume or inquiry to: Mr. William Lambrechts, Chairman, 1550 Ringling Boulevard, Sarasota, FL 34236.

FACULTY POSITIONS

The Department of Biochemistry, Molecular Biology and Cell Biology at Northwestern University intends to make several new appointments at the assistant/associate professor level. We are particularly interested in candidates in the areas of:

Macromolecular structure with emphasis on crystallography or NMR approaches.
Developmental/molecular genetics of complex systems including neurobiology.
Cell biology in areas of cell growth, receptors, and dynamics of cell structure.

Exceptionally qualified applicants in other areas will also be considered. Candidates should submit curriculum vitae, a list of publications, copies of reprints and preprints, a statement of research objectives, and three letters of recommendation, solicited by the applicant, to: Faculty Search Chairman, Department of Biochemistry, Molecular Biology and Cell Biology, Northwestern University, 2153 Sheridan Road, Evanston, IL 60201. Northwestern University is an Equal Opportunity/Affirmative Action Employer.

U.S. Department of Energy
OFFICE OF FUSION ENERGY

Magnetic Fusion Collaborative Research Opportunities

- On fusion energy R&D projects
- At fusion energy centers and DOE laboratories
- For appropriate science and engineering disciplines
- Stipend based on background
- Travel or moving reimbursement

Postdoctoral Research Program

- Up to 2 years of support for recent Ph.D.s

Professional Development Program

- One month to one year of support for university faculty members and DOE/OFE-supported contractor employees

Information and Applications

- Please request materials by program name

Fusion Postdoctoral Research Program

University Programs Division
Oak Ridge Associated Universities
P.O. Box 117
Oak Ridge, Tennessee 37831-0117
(615) 576-3190

Deadline February 1, 1988

FACULTY OF MEDICINE AND ALLIED SCIENCES
KING ABDUL AZIZ UNIVERSITY
P.O. BOX 9029, JEDDAH, SAUDI ARABIA

INVITES APPLICATIONS FOR

FACULTY POSITIONS IN

INTERNAL MEDICINE:
- ORAL & DENTAL HISTOLOGY
- CLINICAL BIOCHEMISTRY:
- ORAL & DENTAL ANATOMY
- OBSTETRICS & GYNECOLOGY:
- CLINICAL DENTISTRY
- NEUROLOGY:
- MEDICAL SURGICAL NURSING
- BIOSTATISTICS:
- PSYCHIATRIC NURSING
- VIROLOGY:
- DENTAL NURSING
- BIOLOGY

SEND C.V., COPIES OF CERTIFICATES TO THE
DEAN AT THE ABOVE ADDRESS

The Board of Trustees of the Royal Botanic Gardens, Kew wishes to appoint a Director to succeed Professor Arthur Bell who will retire in June 1988.

The Director will be responsible for all aspects of the work at Kew and at the satellite garden at Wakehurst Place, Sussex. The Director's primary responsibility will be in the furtherance of scientific research. At present, taxonomic and morphological studies are carried out in the Herbarium, while anatomical, biochemical, cytological and physiological research is conducted in the Jodrell Laboratory. The preserved materials and the unique collection of living plants provide exceptional opportunities for such research.

Candidates should have a distinguished record of scientific attainment and the administrative experience required to lead a large science-orientated organisation. The successful applicant will be expected to maintain contact with similar institutions throughout the world and with universities and research stations in the broad field of plant sciences.

Salary (under review) £4,000-£5,700 per annum according to qualifications and experience.

RELOCATION ASSISTANCE UP TO £10,000 MAY BE AVAILABLE.

For further details and an application form (to be returned by 30 October 1987) write to Civil Service Commission, Alencon Link, Basingstoke, Hants RG21 1BQ, or telephone Basingstoke (0256) 668551 (answering service operates outside office hours) or telex 899399 1230MM G.

Please quote ref. 8/7520.

An equal opportunity employer
FACULTY POSITION IN ANALYTICAL CHEMISTRY

Applications are invited for this position which will become available 1 July 1988. All research areas in analytical chemistry will receive consideration. The appointment will be at the level of assistant professor; however, applications with Ph.D. or equivalent. Immunochemistry, TEM, cell culture, and/or computer reconstruction techniques desirable. Send curriculum vitae and three references to: Dr. David Mark, Department of Pathology, University of Florida College of Medicine and Dentistry of New Jersey—Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854. Equal Opportunity/Affirmative Action Employer M/F/H/V.

FACULTY POSITION IN BIOCHEMISTRY AND MICROBIOLOGY

Applications are invited for two tenure-track positions at the level of assistant professor, one in biochemistry and one in microbiology. Conduct of an active research program and participation in the teaching program of the department will be expected.

In biochemistry we are interested in the mechanisms of controlling collagen matrix morphogenesis. Applications will be considered to: Chairman, Biochemistry Search Committee, c/o Professor D. K. Hoffman, Chairman, Chemistry Department, Iowa State University, Ames, IA 50011. Applicants should submit curriculum vitae, transcripts, a documented summary of past accomplishments, and an explicit statement of research plans and teaching objectives to: Analytical Search Committee, c/o Professor D. K. Hoffman, Chairman, Chemistry Department, Iowa State University, Ames, IA 50011. Junior applicants also should arrange for at least three letters of recommendation to be sent. Evaluation of applications will begin in November 1987. Women and minority applicants are encouraged to apply. Iowa State University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN PHYSICAL CHEMISTRY

Applications and nominations of candidates are invited for a faculty position available 1 July 1988. Candidates in any specialty within inorganic chemistry will be considered. Any appointment will be at the level of assistant professor, although an advanced-level appointment might be possible for an outstanding person with suitable experience and credentials. The position requires demonstrated aptitude for creative research and for teaching pre- and graduate courses. Applications should be directed to: Inorganic Search Committee, c/o Professor D. K. Hoffman, Chairman, Chemistry Department, Iowa State University, Ames, IA 50011. Applicants should submit curriculum vitae, transcripts, and an outline of their research plans during the initial stages of their independent scientific careers. Applications from assistant professor should arrange for three references to send letters directly to Professor Hoffman. Screening of applications will begin in November 1987. Women and minority applicants are encouraged to apply. Iowa State University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN ORGANIC CHEMISTRY

Applications are invited for this position which will become available 1 July 1988. All research areas in organic chemistry will receive consideration. The appointment will be at the assistant professor level, however, applications with Ph.D. or equivalent. Candidates with outstanding potential and commitment to excellence in both research and teaching are encouraged to join a faculty with a strong tradition of research in organic chemistry. Junior candidates in bio-organic chemistry, natural products synthesis or related areas with a strong record of research accomplishment for appointment as the Caldwell Fellow. In addition to normal start-up costs, the Caldwell Fellow will receive a $40,000 per year unrestricted research stipend for three years. Applicants should submit curriculum vitae, transcripts, a list of publications, and a detailed statement of research plans and teaching objectives to: Organic Search Committee, c/o Professor D. K. Hoffman, Chemistry Department, Iowa State University, Ames, IA 50011. Junior applicants should also arrange for at least three letters of recommendation to be sent. Evaluation of applications will begin in October 1987. Women and minority applicants are encouraged to apply. Iowa State University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN MOLECULAR BIOLOGY

Applications are invited for this position which will become available 1 July 1988. All research areas in molecular biology will receive consideration. The appointment will be at the assistant professor level, however, applications with Ph.D. or equivalent. Encouraged are individuals with research interests in any area of modern biochemistry and molecular biology, including nucleic acid biochemistry, protein-nucleic acid interactions, DNA replication and transcription, membrane and cell biology, molecular endocrinology, transmembrane signaling, physical biochemistry, structural biology, and molecular structure and dynamics. Applications should include a curriculum vitae, a list of publications, a summary of current research activities and future research plans, and the names of four individuals from whom letters of reference may be solicited. While we have no formal deadline, we would appreciate receiving applications by 15 November 1987. Please send applications or nominations to: Howard H. Wissler, Department of Biochemistry and Molecular Biology, The University of Chicago, 920 East 57th Street, Chicago, IL 60637. The University of Chicago is an Equal Opportunity Employer.

FACULTY POSITION IN INORGANIC CHEMISTRY

Applications and nominations of candidates are invited for a faculty position available 1 July 1988. Candidates in any specialty within inorganic chemistry will be considered. Any appointment will be at the level of assistant professor, although an advanced-level appointment might be possible for an outstanding person with suitable experience and credentials. The position requires demonstrated aptitude for creative research and for teaching pre- and graduate courses. Applications should be directed to: Inorganic Search Committee, c/o Professor D. K. Hoffman, Chairman, Chemistry Department, Iowa State University, Ames, IA 50011. Applicants should submit curriculum vitae, transcripts, and an outline of their research plans during the initial stages of their independent scientific careers. Applications from assistant professor should arrange for three references to send letters directly to Professor Hoffman. Screening of applications will begin in November 1987. Women and minority applicants are encouraged to apply. Iowa State University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN ORGANIC CHEMISTRY

Applications are invited for this position which will become available 1 July 1988. All research areas in organic chemistry will receive consideration. The appointment will be at the assistant professor level, however, applications with Ph.D. or equivalent. Encouraged are individuals with research interests in any area of modern biochemistry and molecular biology, including nucleic acid biochemistry, protein-nucleic acid interactions, DNA replication and transcription, membrane and cell biology, molecular endocrinology, transmembrane signaling, physical biochemistry, structural biology, and molecular structure and dynamics. Applications should include a curriculum vitae, a list of publications, a summary of current research activities and future research plans, and the names of four individuals from whom letters of reference may be solicited. While we have no formal deadline, we would appreciate receiving applications by 15 November 1987. Please send applications or nominations to: Howard H. Wissler, Department of Biochemistry and Molecular Biology, The University of Chicago, 920 East 57th Street, Chicago, IL 60637. The University of Chicago is an Equal Opportunity Employer.

FACULTY POSITION IN INORGANIC CHEMISTRY

Applications and nominations of candidates are invited for a faculty position available 1 July 1988. Candidates in any specialty within inorganic chemistry will be considered. Any appointment will be at the level of assistant professor, although an advanced-level appointment might be possible for an outstanding person with suitable experience and credentials. The position requires demonstrated aptitude for creative research and for teaching pre- and graduate courses. Applications should be directed to: Inorganic Search Committee, c/o Professor D. K. Hoffman, Chairman, Chemistry Department, Iowa State University, Ames, IA 50011. Applicants should submit curriculum vitae, transcripts, and an outline of their research plans during the initial stages of their independent scientific careers. Applications from assistant professor should arrange for three references to send letters directly to Professor Hoffman. Screening of applications will begin in November 1987. Women and minority applicants are encouraged to apply. Iowa State University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN PHYSICAL CHEMISTRY

Applications and nominations of candidates are invited for a faculty position available 1 July 1988. Candidates in any specialty within physical chemistry will be considered. Any appointment will be at the level of assistant professor, although an advanced-level appointment might be possible for an outstanding person with suitable experience and credentials. The position requires demonstrated aptitude for creative research and for teaching, and a commitment to excel in both. Applications should include a curriculum vitae, a statement of research, and arrange for receipt of three letters of recommendation by 1 December 1987 closing date. Address all correspondence to: Search Committee Chairman, Department of Biochemistry and Molecular Biology, Box J-245, Health Science Center, University of Florida, Gainesville, FL 32610. An Equal Opportunity/Affirmative Action Employer.
ASSOCIATE DEAN AND DIRECTOR OF RESEARCH
SCHOOL OF AGRICULTURE AND LIFE SCIENCES
NORTH CAROLINA STATE UNIVERSITY

North Carolina State University invites nominations and applications for the position of Associate Dean and Director of the North Carolina Agricultural Research Service, School of Agriculture and Life Sciences. The School has 21 departments, 590 faculty and an enrollment of approximately 260 Agricultural Institute students, 2,500 undergraduate students and 740 graduate students.

The Associate Dean and Director of Research is responsible to the Dean of the School of Agriculture and Life Sciences for leadership in the administration, supervision, coordination, development and evaluation of the research programs for the School. These responsibilities include working with faculty members, department heads, other administrators and industry clientele to provide high quality, productive research programs. Responsibilities of the office involve cooperation with other administrative personnel in formulation of budget proposals; allocation of budgeted funds; judging the quality of broad-ranging research activities; and the employment, assessment and promotion of faculty. The individual in this position functions as a member of an administrative team with the Dean and the Associate Deans of Academic Affairs and Extension.

Candidates should have the Ph.D. and demonstrated ability in research and administration. Applicants must have the capacity and desire to work with people. They must also possess an understanding of, and appreciation for, agricultural, biological and social science research endeavors.

Closing date for nominations and applications is November 16, 1987; the date of availability is negotiable. Complete applications will include a letter of interest, a current curriculum vitae, names of four references and a brief statement of the candidate’s philosophy of research administration.

Nominations, inquiries and applications should be addressed to:
Dr. James L. Oblinger
Chairman of the Search Committee
School of Agriculture and Life Sciences
North Carolina State University
Box 7681
Raleigh, NC 27695-7601
919/737-2614

North Carolina State University is an equal opportunity affirmative action employer.

HEAD OF BIOSTATISTICAL UNIT
ARIZONA CANCER CENTER

Increased expansion has led to the creation of a new senior level position to oversee and coordinate biostatistical resources related to cancer clinical trials and related laboratory programs. Will have primary responsibility for Biometry Cores of both NCI and State Cancer Center Grants and three established Program Projects (Cytogenetics, Medical Oncology, and Hyperthermia).

A new junior faculty level position is also available for immediate recruitment. Both software and hardware computer support is extensive and housed in a new Cancer Center building. Extensive professional collaborations are possible including the opportunity to interact with active Epidemiology and Prevention and Control Programs.

Requirements include formal training in statistics, biostatistics, experience with clinical trials, and good management and “people” skills. Biostatistical or modeling expertise useful.

The University of Arizona is a dynamic educational institution with substantial commitment to research. Tucson is a growing professionally-oriented moderate-sized city with surprising cultural and educational opportunities.

Interested applicants should provide a letter of interest, complete curriculum vitae and names, addresses and phone numbers of at least three references to:
Frank L. Meyskens, Jr., M.D.
Chairman of Biostatistical Recruitment
Arizona Cancer Center, Room 3945
University of Arizona
Tucson, AZ 85724

The Committee will begin to screen applications on October 15, 1987 with a closing date of November 30, 1987 or until position is filled.

The University of Arizona is an affirmative action equal opportunity employer.

Immunology Associates

The Upjohn Company, a world leader in the research and development of pharmaceuticals, has several Associate positions available in our immunology and discovery programs. Successful candidates will have a B.S. in Biology, Immunology, Biochemistry. Microbiology or related discipline and have several years of relevant laboratory experience or a related M.S. degree and solid academic achievement. A demonstrated ability to do independent research and make intellectual contributions is necessary for these positions:

Immunology – Microbiology Associate (21707-A)
Perform research on the synthesis, release or biological activity of monokines and phagocytic killing of microorganisms, experience with small animals, cell cultures and immuneassays highly desirable.

Molecular Immunologist/Biologist (21799-A)
Participate in the discovery process for new pharmacological agents; position requires familiarity with maintenance and transfection of tissue cells, ability to purify and characterize macromolecules (DNA, RNA, and proteins); experience with recombinant DNA plus.

Biology Associate (21801-A)
Participate in development of receptor-ligand assays for use in discovery processes for pharmacological agents; position requires familiarity with receptor biochemistry and ability to purify and characterize enzymes; experience with tissue culture and immunological techniques required.

Kalamazoo is located in Southwestern Michigan midway between Chicago and Detroit and offers varied cultural events, cosmopolitan shopping and entertainment, lakes and woodlands minutes away, abundant year-round sports and recreation. Upjohn offers advancement opportunities, a highly competitive salary commensurate with experience, comprehensive benefits and relocation assistance. For prompt confidential consideration, please send curriculum vitae to: M. William Rex, Employment Representative, The Upjohn Company, Kalamazoo, Michigan 49001. Please refer to one of the above position numbers with correspondence. An Equal Opportunity Employer M/F.

Upjohn

Our commitment to scientific excellence continues…
POSITIONS OPEN

IMMUNOLOGY AND INFECTIOUS DISEASES

The Department of Immunology and Infectious Diseases of the Research Institute of the Palo Alto Medical Foundation seeks an M.D. or Ph.D. immunologist with 2 or 3 years of postdoctoral experience. Additional training in molecular microbiology is highly desirable. Applicant should be capable of establishing an active, independent research program which would be a component of a larger unit in the area of host resistance to infection.

The Research Institute of the Palo Alto Medical Foundation is a well-equipped, not-for-profit institute located in downtown Palo Alto near the Stanford University campus.

Send curriculum vitae, a description of research interests, and names and telephone numbers of at least three references to: Jack S. Remington, M.D., Chairman, Department of Immunology and Infectious Diseases, Research Institute, Palo Alto Medical Foundation, 860 Bryant Street, Palo Alto, CA 94301.

The new combined Allergy/Immunology Program of Rush Medical College and The Max Samter Institute is seeking two Board-certified INTERNIST-ALLERGISTS to join its full-time faculty, which already includes six Board-certified allergy/immunology subspecialists and a large staff of basic scientists. Physicians with major interest in laboratory investigation, particularly in the area of immediate hypersensitivity, are preferred for these two tenure-track positions; rank and salary will be based upon individual qualifications. Please address inquiries along with curriculum vitae to:

Henry Gewurs, M.D. (Chairman)
Department of Immunology/Allergy
Rush Medical College
Rush-Presbyterian-St. Luke's Medical Center
1653 West Congress Parkway
Chicago, IL 60612

or to:

Howard Zeitc, M.D. (Program Director)
The Max Samter Institute of Allergy & Clinical Immunology
Grant Hospital of Chicago
550 West Webster Street
Chicago, IL 60614

Rush Medical College and The Max Samter Institute are Affirmative Action/Equal Opportunity Employers.

LABORATORY COORDINATOR. The Applied Molecular Biology Program, University of Maryland Baltimore County (UMB) invites applications for two PERMANENT INSTRUCTOR positions to begin 1 January 1988. (i) To coordinate and teach in project-oriented, graduate laboratory courses in recombinant DNA techniques and microbial genetics. (ii) To coordinate and teach in graduate laboratory courses in hybridoma preparation and biochemistry. Applicants should have research experience in the appropriate fields and preferably an M.S. degree. Submit curriculum vitae and names of three references to: Dr. Nestty Craig, Department of Biological Sciences, UMB, Catonsville, MD 21228. UMB is an Affirmative Action/Equal Opportunity Employer. Qualified minorities and women are encouraged to apply.

MOLECULAR/CELLULAR NEUROBIOLOGIST

ASSISTANT PROFESSOR position in the Neurobiochemistry Group of the UCLA Mental Retardation Research Center. Of particular interest are candidates with demonstrated ability to develop an outstanding research program in the molecular/cellular biology of nervous system development. Start-up funds and excellent university salary and benefits are available. Recruitment will continue until a candidate is identified. Send curriculum vitae, names of four references, and a brief summary of research accomplishments and future research direction by 1 November 1987 to:

Dr. Jean deVellis, Chairman, Search Committee
Neurobiochemistry Group
Mental Retardation Research Center
University of California, Los Angeles
760 Westwood Plaza,
Los Angeles, CA 90024

UCLA is an Equal Opportunity/Admirative Action Employer.

ENDOWED PROFESSORSHIP IN CANCER OR IMMUNOLOGY

The University of Cincinnati and the State of Ohio have created an endowed professorship in the area of Mammalian Gene Regulation (Cancer) and/or Molecular Immunology. This professorship, named the Ohio Eminent Scholar, is designed to add an outstanding scientist to the Department of Microbiology and Molecular Genetics in the College of Medicine. The department has well-established programs in molecular genetics and the Eminent Scholar will fulfill a pivotal role in expanding strength and interactions in the named area(s). The University of Cincinnati is a comprehensive university in the state system. Curriculum vitae should be sent to:

Dr. Jerry B. Lingrel
Department of Microbiology and Molecular Genetics
University of Cincinnati College of Medicine
Cincinnati, Ohio 45267-0524

Affirmative Action/Equal Opportunity Employer.

Staff Scientist

Internationally recognized, University-affiliated Institute specializing in analytical biotechnology has opening for Staff Scientist to assist Director with research and Institute development. Research involves protein characterization, purification and biospecific interaction. Experience in cell isolation and characterization helpful. Qualifications: Ph.D. in chemistry or biochemistry with strong molecular background. Demonstrated excellence in research and strong communication skills required.

Send resume to: Professor Barry L. Karger, Barnet Institute of Chemical Analysis, 341 Mugar Hall, Northeastern University, Boston, MA 02115. Northeastern is an Equal Opportunity/Affirmative Action, Title IX University.

N Northeastern University

Postdoctoral Scientist

Inflammatory Lung Disease

The Department of Experimental Pathology at Smith Kline & French Laboratories is seeking a Postdoctoral Scientist to join a collaborative group which is studying the mechanisms of endotoxin shock and the potential for therapeutic intervention. The successful candidate will work closely with colleagues in the Departments of Immunology and Pharmacology as well as Experimental Pathology in developing models of the Adult Respiratory Distress Syndrome (ARDS) and calibrating these models using a variety of cytologic, immunologic and morphologic techniques. The effects of pharmacologic modulation will be assessed using an array of anti-inflammatory and immunomodulatory compounds to probe the contribution of various inflammatory mediators with special emphasis on eicosanoids. Candidates having experience with models of pulmonary inflammation and/or assay of inflammatory mediators are strongly urged to apply.

Candidates are required to have:

- A doctoral degree in Immunology, Experimental Pathology or a related discipline.
- 0-3 years postdoctoral research experience.
- Proven research ability with strong oral and written communication skills.

The initial appointment is for one year renewable for a second year by mutual agreement.

Smith Kline & French Laboratories is located in suburban Philadelphia, PA, near Valley Forge. We offer excellent compensation and benefits, an attractive relocation policy and a work environment that offers considerable opportunity for personal and professional growth. In particular, it is expected that the work will lead to publication in leading journals as well as presentation at scientific meetings. Please forward your C.V. and the names of three references to: Mary Ann McCurry-C0047-Smith Kline & French Laboratories, Research & Development, P.O. Box 1539, King of Prussia, PA 19406-9539. We are an Equal Opportunity Employer, M/F/H/V.

SK&F

A SmithKline Beecham Company
Scientific Evaluator

Health and Welfare Canada
Health Protection Branch
Bureau of Nutritional Sciences
Ottawa, Ontario

We require an experienced biochemist to evaluate data on the nutritional quality and safety of foods with particular emphasis on novel foods and ingredients. You will also act as a consultant to other specialists in the Department, other government agencies and the food industry.

You require graduation from a recognized university with specialization in biochemistry. Experience in nutrition and toxicology of food and in evaluating the safety and nutritional adequacy of foods and ingredients is required. You should also possess experience in planning, designing or evaluating scientific projects and preparing and publishing reports. Knowledge of English is essential.

We offer a salary ranging from $38,221 to $47,625 commensurate with your qualifications and experience. Preference will be given to Canadian citizens.

Forward your résumé and/or application form, quoting reference number S-87-31-5795-47JG (G35), to:
Joan Girling (613) 996-8054
Public Service Commission of Canada
Ottawa, Ontario K1A 0M7

Closing date: 9 October 1987

Personal information you may provide is protected under the Privacy Act. It will be held in Personal Information Bank PSC/P-PU-O40, Personnel Selection Files.

USE YOUR SCIENTIFIC KNOWLEDGE TO FULL ADVANTAGE

Glaxo Inc. is one of the Top 10 ethical pharmaceutical firms in America. We are a company with tremendous growth opportunities, state-of-the-art facilities, and a commitment to producing medicines that save lives and eliminate suffering.

In the process we have expanded considerably our R&D effort, and now have new and exciting career paths in our Analytical Chemistry Department. This well-equipped, highly trained unit will play a key role in problem solving and in providing the Company with in-depth analytical resources. Other important departmental responsibilities include interfacing with compound discovery, formulation development, and quality control teams.

Areas of particular focus for the Analytical Chemistry Department include:

- Developing and validating analytical methods and specifications for new drug substances, intermediates and dosage forms.
- Preparing analytical and stability sections of IND and NDA’s.
- Conducting kinetic and mechanistic studies of drug degradation reactions.
- Isolation and identification of impurities and degradation products.
- Designing and conducting stability studies.
- Testing clinical supplies.

Careers are available for experienced and non-experienced individuals with backgrounds in a wide variety of specializations such as: chromatography, spectroscopy, physical organic chemistry and analytical chemistry. Ph.D. level positions are available in Analytical Chemistry, Pharmaceutical Science, and Physical Organic Chemistry. B.S. and M.S. candidates with strong backgrounds in analytical and organic chemistry are also being sought.

Join Glaxo Inc. today and use your expertise to full advantage. Your abilities and potential will be recognized with a competitive starting salary and benefits package. Our location, in the heart of Research Triangle Park, North Carolina, offers a mild climate year round, access to some of the finest universities in the country, numerous cultural activities and nearby recreational facilities. For prompt consideration, please forward your resume, including salary history, to:

Dept. CK
(No Phone Calls, Please)
No Private Agency Referrals, Please

Glaxo Inc.
P.O. Box 13398
Research Triangle Park, NC 27709

An Equal Opportunity Employer M/F/V/H
IMMUNOLOGY POSTDOCTORAL POSITION available at Vanderbilt University School of Medicine. Position will involve studies to determine the mechanism of lymphocyte-mediated cytotoxicity of tumor cells. Candidates need skills in immunology or biochemistry. All interested candidates should forward resumes to: James T. Hughes, Ph.D., Medical Oncology, A2127 Medical Center North, Vanderbilt University, Nashville, TN 37232.

MOLLECNULAR/MEDICAl MICROBIOLOGIST: A search is under way for individuals to fill a tenure-track position in medical microbiology and a tenure-track position in immunology. Postdoctoral research experience and a commitment to undergraduate and graduate teaching in microbiology are required. Salary will be commensurate with experience. Send resume, a statement of research interests and goals, transcripts of all academic work, and names and addresses of three reference individuals to: Professor D. E. Talbott, Botany and Microbiology, University of Arkansas, Fayetteville, AR 72701. Applications will be reviewed beginning 15 November 1987 for starting dates of January or August of 1988.

D.E. Talbott, Chairman, Department of Pharmacology, Emory University, Atlanta, GA 30322. An Affirmative Action/EQUAL Opportunity Employer.

MOLLECNULAR/CELLULAR PHARMACOLOGIST OR NEUROPHARMACOLOGIST: Tenure-track positions are available at either an assistant or associate professor rank. Assistant professor requirements: at least 2 years of postdoctoral experience and potential to develop independent research program. Associate professor requirements: five or more years of research/teaching experience in pharmacology or related discipline, evidence of excellent scholarship and potential for securing extramural funding. Molecular, cellular or neuropharmacological research approaches to pharmacological problems preferred. Curriculum vitae, three letters of recommendation, and 2 research papers must be received before 1 January 1988.

Search Committee
Department of Anatomy & Cellular Biology
Medical College of Wisconsin
8701 Watertown Plank Road
Milwaukee, WI 53226

Equal Opportunity Employer M/F/H

OCEANOGRAPHY: STAFF SCIENTIST position is available to teach oceanography in an innovative undergraduate program, Sea Semester. Courses consist of 6 weeks of intensive classroom instruction followed by 6 weeks of teaching on board a sailing research vessel in waters between the Caribbean and Newfoundland. Successful candidates will teach two courses per year, spending about 15 weeks at sea. Ph.D. in marine science required. Start: September 1988. Resume and three letters of recommendation by 1 November 1987 to: Dr. S. E. Humphris, Sea Education Association, P.O. Box 6, Woods Hole, MA 02543.

An Equal Opportunity Employer

PHARMACOLOGIST: Faculty/research position for approximately Ph.D., Pharm.D. Qualifications and experience include: excellent oral and written communication skills and research accomplishments. Faculty rank and salary commensurate with experience. Send curriculum vitae and references to: Robert B. Mancini, Ph.D., D.O., Chairman, Department of Pharmacology/Toxicology & Experimental Therapeutics, New York College of Osteopathic Medicine, Box 170, Old Westbury, NY 11583.

A2127 Medical Center North, Vanderbilt University, Nashville, TN 37232.

MUSCEULAR PARASITOLOGIST

The Department of Biological Sciences, University of Cincinnati, invites applications for an assistant professor tenure-track position in the area of molecular parasitology. Candidates must have completed a doctorate, with postdoctoral experience required. The successful candidate will be expected to develop an independent, funded research program to study the molecular basis of the biology of parasites and/or host-parasite interactions, with annual salary of $25,000. Interested candidates will participate in undergraduate and graduate education. Applicants must submit curriculum vitae, a one-page statement of research goals, and have at least three letters of reference to: Richard D. Karp, Molecular Parasitologist Search Committee, Department of Biological Sciences, University of Cincinnati, Cincinnati, OH 45210. Review of applications will be conducted 15 November 1987. The University of Cincinnati is an Equal Opportunity/Affirmative Action Employer.

PATOGENCY ASSOCIATE UNIVERSITY OF CALIFORNIA (Two Positions)

$50,000 to $44,400

License university technology to industry, negotiate and draft agreements. Extensive personal contact with industry and inventors. Moderate travel. Knowledge of university technology and patent law. Must have Ph.D. in engineering or related discipline, equivalent to advanced degree in either health care sciences or biotechnology or related field plus 5 years of full-time experience in the area. Opportunities range from internships in medical devices, clinical diagnostic tests, or instrumentation designed. Apply by 9 October 1987 to: University of California, Office of the General Council, 1500_2nd Street, Berkeley, CA 94720. Attention: Personnel 20-21.

Affirmative Action/EQUAL Opportunity Employer

PHYSIOLOGY/PHARMACOLOGY SEARCH CONTINUED

Applications are invited for the position of discipline head of physiological biochemistry. The desirable candidate will have an earned doctorate appropriate to the discipline, previous teaching and research experience at the graduate/professional school level, and be eligible for faculty rank. Prior administrative experience preferred. The successful candidate will be prepared to provide academic leadership in teaching a variety of topics in medical physiology and/or pharmacology. Send curriculum vitae and references to: William J. Duhe, Ph.D., Associate Dean for Preclinical Affairs, University of Cincinnati College of Medicine, Cincinnati, OH 45267.

The University is an Equal Opportunity Employer.

PHYTOPLANKTON ECOLOGIST

The University of Texas Marine Science Institute is reopening its search for a full-time, non tenure-track RESEARCH SCIENTIST position. Preference will be given to candidates competent in the use of modern field and laboratory techniques to study phytoplankton and primary production in coastal waters and estuarine environments. Successful applicants are expected to obtain extramural funding to develop an independent research program and to cooperate in development of field-oriented multidisciplinary projects. Candidates must have a Ph.D. and record of research accomplishments. Send letter of application, statement of research interest, curriculum vitae, and names of three references before 2 November 1987 to: Dean, Thalia S. Jones, Marine Science Institute, The University of Texas at Austin, Port Aransas, TX 78373.

The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.

PLANT MOLECULAR BIOLOGIST

The Department of Botany, The University of Texas at Austin, is seeking an assistant professor to fill a full-time, ASSISTANT PROFESSORSHIP to direct research, develop a graduate program and teach in the area of plant molecular biology. Suggested research goals include: (1) demonstrate research capabilities for research in some molecular aspect of plant biology involving the use of recombinant DNA technology, (2) demonstrate research goals, and names of three references by 2 November 1987 to: Dr. Guy Thompson, Chairman, Search Committee, Department of Botany, The University of Texas at Austin, Austin, TX 78713.

The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.

PLANT MOLECULAR BIOLOGIST

The Department of Botany, The University of Texas at Austin, is seeking an assistant professor to fill a full-time, ASSISTANT PROFESSORSHIP to direct research, develop a graduate program and teach in the area of plant molecular biology. Suggested research goals include: (1) demonstrate research capabilities for research in some molecular aspect of plant biology involving the use of recombinant DNA technology, (2) demonstrate research goals, and names of three references by 2 November 1987 to: Dr. Guy Thompson, Chairman, Search Committee, Department of Botany, The University of Texas at Austin, Austin, TX 78713.

The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.

PHOSPHOINOSITIDE RESEARCH

Postdoctoral position available immediately to study phosphoinositide turnover/transmembrane signaling coupled to platelet activating factor receptor, Ph.D. or M.D. preferred. Send curriculum vitae and names of three references to: Dr. Shuldina D. Osterhout, Department of Biology, Boston University, Boston, MA 02215.
Research Scientist

Sigma Diagnostics, a division of Sigma Chemical Company, a world renowned manufacturer of biochemicals and diagnostic reagents, is seeking a PhD Immunologist to join its rapidly expanding Hematology/Histology division. The successful candidate will have at least 5 years' experience in a clinical environment with emphasis on immuno-histochemistry. The position requires the ability to do independent work as well as strong written and verbal communication skills.

Sigma offers competitive salary and full company paid benefits. Please send resume with salary history in confidence to:

Personnel Manager
SIGMA CHEMICAL COMPANY
P.O. Box 14508
St. Louis, MO 63178

FACULTY POSITIONS IN BIOLOGY

As part of a program of continuing faculty and facility development in the natural sciences, Boston University seeks applicants for three tenure-track positions in Biology at the Assistant Professor level. Two years of postdoctoral experience required. Successful candidates are expected to develop an active, funded research program, supervise graduate students, and teach at the undergraduate and graduate levels. Competitive start-up funds are available. Positions to be filled are for September 1988.

COMPARATIVE PHYSIOLOGY Candidates are sought whose research interests include an integrative systems approach using modern methods in an area of study that complements existing faculty in neuroendocrinology, comparative reproductive endocrinology, behavioral endocrinology, and nephrology. Undergraduate teaching in general or systems physiology plus upper division course in specialty.

MOLECULAR CELL BIOLOGY Candidates are sought whose research interests involve molecular aspects of cellular regulation and development, neurobiology, and/or membrane structure and function. The successful applicant will be expected to complement existing faculty in cell development, cell−cell recognition, membrane transport, nucleic acid biochemistry, and cell regulation at the molecular level. Undergraduate teaching in cell biology plus upper division course in specialty.

EVOLUTIONARY BIOLOGY Candidates are sought whose research interests are in organismic evolution using molecular, biochemical, and/or cyto genetic approaches. The successful applicant will be expected to complement existing faculty in the areas of behavioral ecology, population biology, biochemical ecology, and physiological ecology. Undergraduate teaching at introductory level plus upper division course in evolutionary biology.

Send curriculum vitae, a summary of research interests, and names of three references to: Chair, (specify which position), Search Committee, Department of Biology, Boston University, Boston, MA 02215. Deadline for completed applications is November 15, 1987.

BOSTON UNIVERSITY
Department of Biology
An equal opportunity, affirmative action institution.

BIOCHEMICAL PHARMACOLOGIST (Ph.D.) FOR CARDIOVASCULAR RESEARCH

We're Ortho Pharmaceutical Corporation, part of Johnson & Johnson, the most broadly based health care company in the world.

We have an immediate opening in our Division of Pharmacology for a biochemical pharmacologist with a solid foundation in cardiovascular pharmacology and demonstrated capabilities of studying drug action at the biochemical/molecular level. The individual, with minimum 3−5 years of postdoctoral experience, will be part of a multidisciplinary team targeted to the discovery of drugs for the treatment of a variety of cardiovascular diseases including thrombotic disorders and coronary artery disease. The successful candidate will study drug action at the subcellular level (using radioreceptor, radioimmunoassay, enzymological and cell culture techniques) and will develop appropriate in vivo animal models. This senior scientist will be expected to:

• conduct drug evaluation studies and participate in the decision-making process of recommending compounds for development; and
• possess excellent oral and written communication skills.

In addition to a fully competitive compensation and benefits program, we offer a stimulating environment in which to grow and be recognized accordingly. If you are willing to accept this challenge and meet the above qualifications, please send your resume including salary history and requirements, to: Mr. Frank Folio, Dept. 35, Ortho Pharmaceutical Corporation, P.O. Box 300, Raritan, NJ 08869-0602

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NATIONAL SCIENCE FOUNDATION (NSF)

NSF's Division of Astronomical Sciences is seeking qualified applicants for the following positions.

(1) Program Director, Astronomical Instrumentation and Development Program. This position will be filled on a one year rotator or temporary basis starting January 1988.

(2) Astronomy Centers Manager, National Astronomy Center. This position will be filled on a two year rotator or temporary basis starting as soon as possible.

The per annum salary for temporary positions is currently AD-Level IV, $45,763 to $71,555. The per annum salary for rotator positions is currently $50,000 to $72,500. Normally the rotator candidate receives a leave of absence from his/her employer and salary is set in accordance with the Rotator Program.

Applicants should have a Ph.D. in Astronomy or Astrophysics or equivalent experience. In addition for the Program Director positions, 5 or more years of scientific research experience beyond the Ph.D. along with experience is required. For the National Astronomy Center position, experience in management in organizations which conduct scientific or technical research is also required.

Program Directors are responsible for the review, recommendation and processing of proposals for grants in astronomy research and budget preparation. The Astronomy Centers Manager is responsible for scientific and technical oversight of work at a National Astronomy Center, review of new proposals and initiatives, and budget preparation.

Applicants should send a SF-171, Application for Federal Employment, or resume to the National Science Foundation, 1800 G St., NW., Room 508, Washington, DC 20550. Attn: Catherine Handle. For technical information, please contact the Division of Astronomical Sciences, (202) 357-9488. For further information on how to apply call (202) 357-7840. Hearing impaired individuals should call (202) 357-7492.

NSF is an Equal Opportunity Employer.

STATE OF KUWAIT

KUWAIT INSTITUTE FOR SCIENTIFIC RESEARCH

KISR has a vacancy for a:

SUPERVISOR, EDITORIAL UNIT

MAJOR DUTIES:
- Supervising and checking work of the unit, training editors (technical editing and computer use).
- Editing and supervising the editing of project reports, technical reports, proposals to clients, manuals, articles to be submitted to journals, conference papers, annual research report articles, brochures and fliers.
- Is responsible for the editing and production of the KISR Annual Research Report.
- Is responsible for the writing and production of the public version of the KISR Annual Report, and for the writing of the KISR Annual Report and KISR Semiannual Report to the Board of Trustees.
- Supervising typesetting of specific materials as needed.

QUALIFICATIONS:
Applicants should have a M.A. or M.Sc. degree or equivalent with 7 years of experience in technical editing, excellent knowledge of English grammar and syntax. Some managerial experience preferred.

KISR offers attractive tax free salaries commensurate with qualifications and experience and generous benefits which include gratuity, free furnished airconditioned accommodation, school tuition fees for children, contribution to a savings plan, five weeks annual paid vacation, airtickets, free medical care and life insurance.

Interested applicants are requested to send their curriculum vitae with supporting information not later than one month of this publication to:

DR. HOMOUD AL-ROBAH
DIRECTOR GENERAL
KUWAIT INSTITUTE FOR SCIENTIFIC RESEARCH
P.O. BOX 24885 SAFAT
13199 SAFAT, KUWAIT.

BIOTECHNOLOGY INDUSTRIAL LIAISON

Iowa has invested nearly $50 million in agricultural biotechnology research at Iowa State University in the past two years. A position is immediately available for an individual to serve as liaison between the agricultural biotechnology program of ISU and biotechnology industries.

Primary responsibilities will be to establish and promote opportunities for research collaboration between the biotechnology industry and ISU industry investment in university product development activities, and the location of industrial research and production facilities in Iowa. The individual will be a staff member of ISU's Office of Biotechnology, which coordinates the university-wide biotechnology research programs of the Colleges of Agriculture, Engineering, Family and Consumer Sciences, Sciences and Humanities, and Veterinary Medicine. The individual will work closely with the state agencies and institutions represented in the Iowa Biotechnology Consortium.

Minimum requirements are a Master's degree in a biotechnologically-related discipline with considerable experience in university and/or corporate research and management. Salary is commensurate with qualifications and experience. The initial appointment is for a minimum of two years with renewal contingent on performance and funding.

Qualified individuals should submit a detailed resume including names, addresses, and phone numbers of three references who may be contacted to Walter R. Fehr, Biotechnology Coordinator, 1301 Agronomy, Iowa State University, Amies, Iowa 50011.

Application deadline: October 30, 1987, or until filled.

IOWA STATE UNIVERSITY
Ames, Iowa

Opportunities in Molecular Genetics

Pfizer Central Research is seeking qualified professionals to fill several openings in the Department of Molecular Genetics. Working with other specialists in a multi-disciplinary project team, you will conduct original research experiments, applying your skills to exploratory biomedical research projects involving molecular genetics approaches.

These positions require either an MS or BS in an appropriate biological or chemical discipline with additional postgraduate experience in one or more of the following areas:

- mRNA isolation, cDNA library construction
- Chemical analysis of protein sequence and structure
- Synthesis, cloning and characterization of synthetic DNA
- Mammalian cell culture/transcription regulation

In addition to a stimulating scientific environment, we offer a competitive compensation/benefit package and relocation assistance to an attractive southeastern Connecticut shore community. Please send a resume, description of research experience and names of three references to: Mrs. Lorraine C. Corr, Personnel Associate, Pfizer Central Research, Eastern Point Road, Groton, CT 06340.

Pfizer
An equal opportunity employer
HEALTH SCIENTIST ADMINISTRATION TRAINING AT THE NATIONAL INSTITUTES OF HEALTH THROUGH THE GRANTS ASSOCIATES PROGRAM

Scientists in biomedical or behavioral research interested in an administrative career with federal programs supporting research and training in health related fields may wish to consider the Grants Associates Program in the U.S. Public Health Service. This program is governed by the Grants Associates Board and is administered by the Office of Extramural Research in the Office of the Director, National Institutes of Health.

The Program offers a limited number of full-time permanent positions per year on a highly selective basis, that prepare each associate for a leading role in health science administration. For a twelve-month period, Grants Associates participate in individually structured training experiences including on-the-job assignments, courses and seminars. The Program provides opportunities for participation in the development and administration of federally supported research programs, in the fundamentals of effective management, in the peer review process and in other related areas of health science administration. The Program also attempts to develop a sensitivity to the consequences of program decisions on other federal health programs, research institutions, and national health needs.

Admission to the program is highly competitive for the few positions available. Motivation for a career in science administration, good interpersonal skills, and evidence of executive potential are important. If you are a U.S. citizen and hold a doctorate or equivalent in a discipline related to the biomedical or behavioral sciences, have significant independent research experience beyond the doctorate and are attracted to health science administration as a profession, you should inquire about the Grants Associates Program.

Grants Associates may be appointed either in the U.S. Civil Service with a salary range of $32,567 to $45,736 (General Schedule levels 12-14) depending on experience or in the Commissioned Corps of the U.S. Public Health Service at ranks beginning with senior grade (03 Lieutenant) salary dependent on prior military experience, but beginning at $19,990.80 basic pay.

The National Institutes of Health does not discriminate in employment on grounds of race, color, sex, national origin, age or handicap.

For further information, write to:
Director, Health Scientist Administrator Development Programs
Office of Extramural Research
Office of the Director
National Institutes of Health
9000 Rockville Pike
Building 31, Room 18-625
Bethesda, MD 20892

THE NIH IS AN EQUAL OPPORTUNITY EMPLOYER
POSTDOCTORAL POSITION—Ph.D. to participate in projects involving several research groups studying nature and cellular phenomena. Interested applicants should send curriculum vitae and three references to: Thomas Moore, Department of Chemistry, Arizona State University, Tempe, AZ 85287-1604. ASU is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
For studies of cell and molecular biology of T lymphocyte activation. Ongoing projects involve Ca++ ion flux, oncogene expression, and phosphoamino acid determination. Interested applicants should send curriculum vitae and three references to: Rich Martin, Department of Pathology, Boston University, 80 East Concord Street, Boston, MA 02118. An Equal Opportunity Employer.

POSTDOCTORAL POSITION—available for Ph.D. biochemist/cell biologist interested in studying structural, functional, or regulatory aspects of unique intracellular modified proteins in relation to cell cycling and cell differentiation. Experience with protein purification, immunochemical, or molecular techniques helpful. This is a one-year position. Position is associated with ongoing research in new facility in attractive semidetached setting. Send curriculum vitae and three references to: Dr. William Maltese, Center for Research, Geisinger Clinic, Danville, PA 17222. Equal Opportunity Employer M/F/H.

POSTDOCTORAL POSITION:
DANA FARBER CANCER INSTITUTE
HARVARD MEDICAL SCHOOL
Available immediately. Tumor biologist/immunologist with experience in several in vitro and in vivo tumor models. Research involves the production and use of monoclonal antibodies as carriers of radiocides for diagnosis and therapy. Candidate will work independently and be expected to contribute to ongoing research. Position is associated with ongoing research in a new facility in attractive semidetached setting. Send curriculum vitae and three references to: Dr. A. I. Kass, Harvard Medical School, SWRL, 50 Binney Street, Boston, MA 02115. Telephone: 617-732-2184. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION: The Division of Pulmonary Medicine at Long Island Jewish Medical Center is seeking a Ph.D. to direct the Pulmonary Research Laboratory. The position involves independent research. Potential collaborative areas of interest include endothelial cell injury, erythropoietin physiology, and sarcoid secretion. Continuous funding available through NIH grants and contracts. Applicants should send their curriculum vitae to: Harry Steinberg, M.D., Division of Pulmonary and Critical Care Medicine, Long Island Jewish Medical Center, New Hyde Park, NY 11042. Equal Opportunity Employer.

POSTDOCTORAL POSITION available for those experienced in molecular biology to investigate cancer suppressor genes. Please send curriculum vitae and names and telephone numbers of three references to: Dr. Noel Bouch, Department of Microbiology-Immunology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611.

POSTDOCTORAL POSITION: seeking molecular biologist to participate in evolutionary studies on protists. Masters in cell biology required. Experience in sequencing. Available immediately. Applicants should send curriculum vitae to: Dr. Richard E. Triemer, Department of Biological Sciences, Rutgers University, Piscataway, NJ 08855–1059.

POSTDOCTORAL POSITION
Project to investigate the mechanism of initiation of S phase DNA and cellular proliferation. Candidate will conduct research requiring expertise in molecular biology, immunology, and flow cytometry. Beginning 1988. Contact: Dr. Robert Barbabra, Box 607, University of Rochester Medical Center, 601 Elmwood Avenue, Rochester, NY 14642.

POSTDOCTORAL POSITION—available immediately to participate in research on the actions of insulin and its interactions with other hormones and regulatory peptides in vivo. Experience with purification of molecular biology, site-directed mutagenesis, and cell culture technology is required. Three references to: Dr. Pierre De Meyts, Department of Diabetology, Endocrinology and Metabolism, City of Hope National Medical Center 1500 East Duarte Road, Duarte, CA 91010.

POSTDOCTORAL POSITION available immediately to participate in research on the actions of insulin and its interactions with other hormones and regulatory peptides in vivo. Experience with purification of molecular biology, site-directed mutagenesis, and cell culture technology is required. Three references to: Dr. Bruce S. Zevi, Department of Microbiology, The Ohio State University, 484 West 12th Avenue, Columbus, OH 43210. The Ohio State University is an Affirmative Action/Affirmative Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study the structure, function, and molecular biology of Arg-Gly-Asp—directed cell adhesion receptors expressed in human cells. A strong background in molecular biology is required. Send curriculum vitae and names of three references to: Dr. Charles K. Willingham, Department of Microbiology, Texas A&M University, College Station, TX 77843. Equal Employment Opportunity M/F.

POSTDOCTORAL POSITION—available for a recent graduate with a Ph.D. in an area of ocularomotor research. Candidates with a background in motion perception who want experience in an established human ocularomotor research laboratory are encouraged to apply. This is a Stanford University postdoctoral position located at the Santa Clara Valley Medical Center, where the graduate would work with an M.D. neurologist and Ph.D. biotechnologist. Send résumé and three letters of recommendation to: John R. Horson, M.D., Department of Neurology, Santa Clara Valley Medical Center, 781 South Bascom Avenue, San Jose, CA 95128. Stanford University is an Equal Opportunity Employer.

POSTDOCTORAL POSITION: The University of Texas Health Science Center at Tyler is offering a position at the P.O. Box 2003 Tyler, TX 75710.

POSTDOCTORAL POSITION: to study the role of electrical excitability in the control of secretion from identified pituitary cells. NIH-funded project with support available immediately. Experience in single-cell electrophysiology desirable. Send curriculum vitae and names of references to: C. J. Lingle, Department of Anesthesiology, Washington University School of Medicine, 660 South Euclid Avenue, St. Louis, MO 63110.

POSTDOCTORAL POSITION—ENZYMOLoGY. The research is aimed at identifying, isolating, and characterizing lignin-degrading enzymes in a filamentous fungus. Work will be conducted in laboratories at the U.S. Forest Products Laboratory/University of Wisconsin. Available immediately for 1 to 2 years. Salary: $20,000 per year. Send curriculum vitae and names of references to: Dr. T. K. Kirk, Forest Products Laboratory, One Gifford Pinchot Drive, Madison, WI 53705–2398. Telephone: 608-264-5887 or 8666.

POSTDOCTORAL POSITION available immediately to study the interactions of diet and toxic stimuli on myocellular tissue development. In vitro systems of cultured adult and neonatal rat heart cells will be used as experimental models. A strong background in biochemistry, cell biology, and cell culture is required. Application is requested. Cellular injury induced by the treatments will be evaluated by changes in cell function, enzyme activities, and other cellular properties. Applicants should send their curriculum vitae and names and addresses of three referees to: Dr. Acosta, College of Pharmacy, The University of Texas, Austin, TX 78712.

POSTDOCTORAL POSITION
MOLECULAR IMMUNOLOGY RESEARCH, SCRIPPS CLINIC
A postdoctoral position is available to study the interaction of CD4 with MHC Class II, HIV gp120, and the T cell receptor using genetically engineered secreted versions of these molecules. Individuals with a strong background in protein chemistry and/or genetic engineering are particularly encouraged to apply. Candidates must be U.S. citizens or permanent residents. Please send curriculum vitae, representative publications, and names of three references to: Dr. Nicholas Gascoigne or Dr. Per A. Peterson Department of Immunology, Scripps Clinic and Research Institute of Scripps Clinic 10666 North Torrey Pines Road, La Jolla, CA 92037

POSTDOCTORAL POSITION IN MOLECULAR VIROLOGY. A postdoctoral position is available to study the regulation of mRNAs and proteins in cells infected with herpes simplex virus. The successful candidate will join a research group interested in characterizing trans-acting molecules which regulate mRNA half lives, as well as in understanding the role of RNA polymerase II transcription initiation with different stabilities. The work will involve construction and analysis of viruses carrying mutations in a gene encoding monocistronic mRNAs or in genes encoding multicystronic mRNAs. Applicants should have a strong background in molecular biology, virology, or molecular genetics. Send curriculum vitae and three letters of recommendation to: Dr. G. Sullivan, Department of Microbiology Loyola University of Chicago Stritch School of Medicine 2160 South First Avenue Maywood, IL 60153 Loyola University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available in cytochrome research to study (i) signal transduction through the receptor for tumor necrosis factor, (ii) the molecular biology of tumor necrosis factor actions in normal and transformed cells. Recent Ph.D. in training in protein chemistry or molecular biology preferred. Successful candidates should submit curriculum vitae and three references to: Dr. David B. Donner, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021.

POSTDOCTORAL POSITION AND RESEARCH ASSOCIATE POSITION available in protein chemistry and affinity labeling of purine nucleotide sites in dehydrogenases and kinases. Recent Ph.D. in biochemistry. Send résumé and three references to: Dr. Roberta F. Colman, Department of Chemistry and Biochemistry, University of Delaware, Newark, DE 19716. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL—RESEARCH ASSOCIATE POSITIONS. Positions are available to study the mechanisms of 3-methyl-bolantholene-induced thymic lymphoma in mice. The work is part of a comprehensive research program that includes genetic, immunological, and molecular approaches to chemical carcinogenesis in this animal model. Experience in recombinant DNA techniques is desirable. Applicants can choose between the laboratories of Drs. Frank Lilly, Geoffrey Childs, Leslie Leinwand, Ken Krauter or Jack Lenz, depending on the particular project of interest. Send curriculum vitae and at least two letters of recommendation to: Dr. Frank Lilly, Department of Genetics, Albert Einstein College of Medicine, Bronx, NY 10461. An Affirmative Action/Equal Opportunity Employer.

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EXECUTIVE DIRECTOR
Oak Ridge Associated Universities

The Board of Directors of the Oak Ridge Associated Universities invites nominations and applications for the position of Executive Director. Oak Ridge Associated Universities is a private not-for-profit association of 49 colleges and universities with a staff of more than 500 and a current operating budget of approximately $35 million with offices in Oak Ridge, TN, and Washington, DC. It conducts research, educational and information programs in the areas of energy, health, and the environment for the U.S. Department of Energy (DOE), other private and governmental organizations, ORAU member institutions, and other colleges and universities. ORAU is a management and operating contractor for DOE. Activities include the administration of pre- and post-doctoral fellowships, basic and applied research in biomedicine and physics, policy studies, and management of major research facilities.

Responsibilities of the Executive Director include: Direction of all programs, facilities, and personnel; provision of strong leadership in pursuing new initiatives and new directions for ORAU; overall responsibility for cooperative activities and relationships with member institutions; representation of ORAU to federal agencies, corporations, foundations, universities, and other organizations; and strategic planning.

It is desirable that candidates for the position have the following qualifications: Earned doctorate in science, engineering, medicine or a related field; experience as a faculty member or familiarity with university administration, governance, etc.; research experience; familiarity with government agencies; funding procedures, and proposal preparation; management experience, including fiscal, personnel, and program/project responsibility; familiarity with private foundations and other 501(c)3 institutions; strong interpersonal skills; and ability to communicate well orally and in writing.

The position will be available on or before July 1, 1988. The Search Committee will begin its review of applications November 2, 1987. Salary and starting date are negotiable. Applications should include a letter stating an interest in the position, a complete resume, and names and addresses of at least three references. Applications will be considered confidential.

Applications and nominations should be sent to:
Dr. Paul F. Parks
Vice President for Research
202 Semford Hall
Auburn University, AL 36849

ORAU is an EEO/AA Employer

Glaxo Has The Prescription For Career Success
Glaxo Inc., is one of the premier research-based pharmaceutical companies in America. Ranked in the nation's Top 10, we are a technically advanced force for innovation that is constantly adding new and important ethical and proprietary pharmaceuticals to its long list of successes. We currently have the following openings available at our Corporate Headquarters located in Research Triangle Park, N.C. (near Raleigh/Durham).

PHARMACEUTICAL SENIOR SCIENTIST
As a key member of our Analytical Chemistry Team, you will be responsible for:
- Developing analytical methods and conducting accelerated and long-term stability studies.
- Applying kinetics and physical chemical principles to elucidate drug degradation reaction mechanisms. Preparing IND and NDA technical documentation.

Background must include a Ph.D. in Physical Organic Chemistry or Pharmaceutical Science. Desirable to have 2-3 years postdoctoral experience in kinetic studies and evaluation of reaction mechanisms. Must also have experience with state-of-the-art analytical instrumentation. Dept. 86-279E

The following SENIOR SCIENTISTS positions are available within our Biochemistry Department.

SENIOR SCIENTIST
Qualified candidate will be responsible for:
- Isolation, characterization, and study of kinetic parameters of target enzymes. Design of specific inhibitors and substrates for selected enzymes.

SENIOR SCIENTIST
Qualified candidate will be responsible for:
- Peptide synthesis — classical and solid phase. Structure function activity relationship of synthetic peptides - a variety of areas.
- Both positions require a Ph.D. in Biological Chemistry with 2-3 years postdoctoral experience in enzymology or peptide synthesis. Candidates must be familiar with state-of-the-art analytical instrumentation. Supervisory experience is desired. Dept. 86-271E

At Glaxo Inc., growth opportunities and up-to-date facilities are complemented by a location that has excellent resources in close proximity. Prestigious universities, scenic vistas, lively recreational areas, and exciting cultural opportunities are all a part of the daily life of the Glaxo professional. Further, we reward talent and creativity with an excellent salary and benefits package.

For prompt consideration, please forward your resume, INDICATING THE CORRESPONDING DEPARTMENT NUMBER, and salary history to:

Glaxo Inc.
P.O. Box 13398
Research Triangle Park, NC 27709

An Equal Opportunity Employer M/F/V/H

No Private Agency Referrals, Please (No Phone Calls, Please)
TUMOR BIOCHEMIST/ MOLECULAR BIOLOGIST

The Chemotherapy Department has an immediate opening for a biochemist or molecular biologist to work on approaches to cancer chemotherapy through modulation of growth regulatory processes. The selected candidate will participate in an environment of basic and applied science designed to generate novel drug discovery strategies and techniques.

Qualified applicants should possess the following:

- Ph.D. in biochemistry, molecular biology or related discipline with 1-5 years of postdoctoral experience.
- Experience in one and more of the following areas: Growth factor-receptor interactions, mitogen mediated signal transduction, phosphatidylinositol metabolism or other second messenger pathways and protein kinase C.
- Knowledge of cancer chemotherapy or tumor biology will be considered an advantage.
- Excellent oral and written communication skills.

Our research facilities, adjacent to The University of Michigan campus in Ann Arbor, Michigan, are among the finest and best equipped in the world and are devoted exclusively to the discovery and development of new drugs. We offer excellent compensation, benefits and working environment. Qualified candidates should forward resume together with salary requirements to: Ms. Rose Chapman, Manager, Human Resources, Warner-Lambert/Parke-Davis, 2800 Plymouth Road, Ann Arbor, MI 48105.

Research Officer (Montreal, Quebec)

The Protein Engineering Section of the Biotechnology Research Institute, National Research Council of Canada requires a NMR spectroscopist specializing in peptide and protein structure determination.

Research in this Section is directed to the isolation and characterization of proteins and enzymes, chemical and physical studies including sequencing, synthesis, kinetics and structure determination. In collaboration with other members of the Institute, the Section carries out protein engineering research on hydrolytic enzymes. The successful candidate for this position will be required to set-up and lead a research group within the Section for the determination of peptide and protein solution structures by two-dimensional NMR spectroscopy.

Candidates must have a Ph.D. in biochemistry or in a related discipline and at least 5 years of relevant postdoctoral research experience. Demonstrated ability to provide leadership to a group of scientists and aptitude to communicate well with scientists and industrialists are essential. Knowledge of both the English and French languages is required for this position. Unilingual persons may apply but must indicate their willingness to become bilingual and demonstrate their potential to achieve the required level of linguistic proficiency. Training will be provided at NRC expense if necessary.

SALARY: Commensurate with qualifications and experience.

Apply in writing, giving complete details of education and experience to: The Manager, Employment Office, National Research Council of Canada, Ottawa, Canada, K1A OR6. In reply, please quote RB-87-07(SC).

POSTDOCTORAL FELLOWSHIPS

The Hebrew University of Jerusalem JERUSALEM, ISRAEL

The Hebrew University of Jerusalem invites applicants for Postdoctoral Fellowships in Humanities, Social Sciences, Natural and Applied Sciences, Agriculture and Medicine for the 1988-89 academic year.

Candidates may apply at an early stage of their professional career (not later than 3 years after completion of their doctoral dissertation).

The fellowships are tenable for one academic year and may be extended for another year.

The fellowship provides a 12-month stipend (with COL adjustments), rent allowance and a return ticket to Israel.

Application forms can be obtained from the Office of University Funds, P.O. Box 1255, Jerusalem, 91904, Israel.

Completed application forms must be returned by December 1, 1987.

POST DOCTORAL POSITIONS

Post Doctoral positions are available for research on the biochemistry & molecular biology of the components of CONNECTIVE TISSUES. A background in collagen, proteoglycan or glycoprotein biochemistry with experience in cell or molecular biology is desirable. Applicants must have US citizenship or permanent resident status. Send resume to: N.A. KEFALIDES, MD, PhD Connective Tissue Research Institute University of Pennsylvania UNIVERSITY CITY SCIENCE CENTER 3324 Market St., Phila., PA 19104 An Affirmative Action/Equal Opportunity Employer
DENTAL RESEARCH INSTITUTE IN ORAL BIOLOGY
UNIVERSITY AT BUFFALO

Post-doctoral positions available immediately to carry out basic research on interdisciplinary studies in oral biology. These positions are part of a new NIH funded Dental Research Institute utilizing modern techniques of biochemistry, biophysics, molecular biology, microbiology, immunology, and cell biology to examine the modulation of natural response in oral disease in three integrated areas: Salivary Defense Factors, Bacterial Virulence Factors, and Host Response Systems. Inquiries including resume should be directed to the scientists listed below at the Dept. of Oral Biology, SUNY/Buffalo, Foster Hall, Buffalo, N.Y. 14214.

Positions are available for:

Molecular Biologist with experience in molecular cloning in mammalian systems to work on the structural aspects of human salivary glycoproteins and phosphoproteins. (Write to Dr. Michael Levine, 109 Foster Hall; Tel: 716-831-2114).

Biophysicist with experience in high resolution NMR techniques, computer modeling, and X-ray diffractometry to examine peptide conformation of human salivary molecules. (Write to Dr. Ronald Loomis, 109 Foster Hall; Tel: 716-831-2114).

Biochemist or Microbiologist to study the interaction of Streptococcus surfaces with components of human saliva, cardiac muscle, and kidney; and to characterize mechanisms of coaggregation between Streptococcus and Bacteroides species. (Write to Dr. Murray Stinson, 230 Cary Hall; Tel: 716-831-2177).

Microbiologist with background in microbial physiology and/or microbial ecology to define and characterize virulence factors associated with infections due to black pigmented Bacteroides. Experience with the use of a chemostat for bacteriologic culture helpful. (Write to Dr. Joseph Zambon, 222 Foster Hall; Tel: 716-831-3940).

Biochemist or Microbiologist with experience in purification and characterization of carbohydrates and immunological techniques to examine the structure and pathogenic potential of bacterial polysaccharides. (Write to Dr. Rosemary Linzer, 211 Foster Hall; Tel: 716-831-3826).

Molecular Biologist preferably with experience in molecular cloning in bacterial systems to work on molecular analysis and evolution of fimbriae in black-pigmenting Bacteroides. (Write to Dr. Douglas Dickinson, 210 Foster Hall; Tel: 716-831-3127).

Immunohistologist or Protein Chemist to work on epitope mapping and structure/function relationship of bacterial fimbriae. Experience with monoclonal antibodies and peptide synthesis desirable. (Write to Dr. Robert Genco, 115 Foster Hall; Tel: 716-831-2854).

Cell Biologists or Biochemists preferably with experience in cell culture, fluorescence spectroscopy and biochemical techniques to study the effects of biological response modifiers on bone cells with emphasis on cytosolic calcium and arachidonic acid metabolism. (Write to Dr. Rosemary Dziak, 318 Foster Hall; Tel: 716-831-3827).

Cell Biologist or Biochemist to work on expression, isolation, and purification of a unique periodontal ligament cell autocrine motility and mitogenic factor. (Write to Dr. Victor Terranova, 320 Foster Hall; Tel: 716-831-2132).

Biochemist or Cell Biologist with experience in receptor purification, radioligand binding assays and/or flow cytometric techniques to study complement receptor expression on neutrophils. (Write to Dr. Mark Wilson, B36 Foster Hall; Tel: 716-831-2590).

Cellular Immunologist or Microbiologist with experience in infectious disease processes in animal models and/or bacterial membrane isolation to study host response mechanisms in gram-negative bacterial infections. (Write to Dr. Priscilla Chen, 111 Foster Hall; Tel: 716-831-2515.)

EQUAL OPPORTUNITY EMPLOYER
POSTDOCTORAL RESEARCH ASSOCIATE

Position available immediately to study biochemical and molecular mechanisms of calcium-dependent processes, particularly in brain and cultured endothelial cells. Candidates should have a recent Ph.D. in biochemistry or molecular biology. Send curriculum vitae with names of three references to: Dr. Jack Erlichman, Department of Medicine/Biochemistry, Albert Einstein College of Medicine, 1600 Morris Park Avenue, Bronx, NY 10461.

POSTDOCTORAL RESEARCH ASSOCIATE—Position available for an electrophysiologist to characterize the properties of central axons which have regenerat- ed along peripheral nerve implants. Preference given to applicants experienced in spinal cord physiology and/or tract-tracing, and histological techniques. Please send curriculum vitae with names of three references to: Dr. Julia K. Terzis, Microsurgical Research Center, Eastern Virginia Medical School, 700 Olney Road, Norfolk, VA 23507.

POSTDOCTORAL RESEARCH ASSOCIATE

POSITION for study of neuroleukin (Science 234, 566– 574 and 574–577). This position is expected to include (i) study of neuroleukin action on neurons cultured from septum or hippocampus, (ii) study of neuroleukin effects upon cultured spinal motor neurons, as well as effects on motor neuron development in vivo, (iii) mutational analysis of neuroleukin, (iv) mutational analysis of human immunodeficiency virus sequence homologous to neuroleukin and study of AIDS dementia, (v) character- ization of neuroleukin receptor on neurons and/or lym- phocytes and interaction of GP120 with the receptor for neuroleukin and cultured cell lines. Send curriculum vitae and names of three references to: Mark Gurney, Department of Pharmacology and Physiology Sciences, University of Chicago, 547 East 57th Street, IL 60637. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

A position is available for an individual having recent training and experience in cell physiology, pharmacology, or biochemistry to investigate mechanisms of oxi- dant-induced injury in pulmonary endothelial and other membrane structures. Studies emphasize the relationships between alterations in membrane fluidity, lipid composition, and surface receptor function as well as the role of vitamin E in stabilizing membrane structure and function. Training in lipid biochemistry is desirable. Applicant should submit curriculum vitae and names of three references to: Dr. J. M. Dailey, Division of Pulmo- nary Medicine, Health Center Box J-225, University of Florida, Gainesville, FL 32610. Telephone: 904-392-0878.

POSTDOCTORAL RESEARCH IN CLINICAL NEUROBIOLOGY

Several postdoctoral positions (Ph.D., M.D., or M.D./ Ph.D.) are immediately available in the Center for AIDS Research supported by a P30 grant established to develop a program in clinical psychobiology at the University of California, Irvine. The goal of this program is to provide opportunities for young investigators to develop careers in research that bridge the basic and clinical aspects of neurobiology. Research will focus on the neurobiology of cognition and its restoration after injury in animal models and man, particularly as relating to development, aging, and associ- ated disorders. The program is multidisciplinary, empha- sizing the use of olfactory stimuli to study developmental vs. age-related plasticity mechanisms in associated corti- cal and hippocampal circuits. Projects include NMDA receptors and synaptic plasticity, electrophysiological studies on cortical and hippocampal circuits, computer simulations of these networks and synaptic mechanisms, behavioral experiments and neuropsychological and clinical research in man. The clinical psychobiology program is under the direction of Drs. Carl Cotman, Ira Lott, and Gary Lynch. The positions are available immediate- ly. Interested applicants should submit their curriculum vitae and the names of three references to: Dr. Carl Cotman Program in Clinical Psychobiology Department of Neurology California College of Medicine 144 Med Surge I University of California Irvine, CA 92717 An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

Position available immediately to participate in studies on the genetic regulation of cytokinin metabolism and food legumes. Ph.D. in molecular biology, genetics or biochemistry is required. Experience in enzymology and recombinant DNA techniques is desirable. Salary range $23,000 to $25,000. Application deadline 15 October 1987. Submit resume, research interest, transcripts, and four letters of recommendation to: Dr. David W. S. Mok, Department of Entomology, Oregon State University, Corvallis, OR 97331–2911. Telephone: 503-754-3695. OSU is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITION

A postdoctoral research position in cell physiology is available in the laboratory of Dr. Robert V. Farese, M.D., Associate Chief of Staff for Research & Development (151), James A. Haley Veterans Hospital, 1501 Northwest Downs Blvd., Tampa, FL 33127. Telephone: 813-972-7563.

PROFESSOR OF BIOCHEMISTRY

UNIVERSITY of GENEVA

FACULTY of SCIENCES

Full-time position newly opened for a scientist capable of directing a research program in biochemistry. Various research domains will be considered, such as structure and function of macromolecules, including physical and chemical approaches to biochemical teaching at undergraduate and graduate levels will be required. The language of instruction is French, but a period of adjustment is planned. The position is available January 1989, negotiable. Applications should be sent by 31 December 1987 to: Secrétariat de la Faculté des Sciences, Université de Genève, 20, quai Ernest-Ansermet, CH-1211 GENEVA 4, Switzerland, where inquiries also can be addressed.

PROGRAM DIRECTOR, MALARIA IMMUNITY AND VACCINE RESEARCH—Position available immediately for a research administrator with exceptional experience and credentials in Preventive Medicine. This person will be responsible for all aspects of research administration for a malaria vaccine candidate, including the supervision of technical, program, and administrative support staff. Maintains professional liaison with AIDS, WHO, PATH, FDA, and others. Field experience with human malaria required. Training in epidemiology with extensive medical research and development management experience preferred. International professional standing with experience in overseas operations and vaccine development desired. Send complete curriculum vitae, present compensation and names of three references to: PD MIVR, Box 2747, Wash- ington, DC 20038.

RESEARCH AND ANIMAL FACILITIES MANAGER: Long Island Jewish Medical Center is seeking a qualified individual to manage and provide service to the research facilities including serving as the primary contact for our research laboratory. Candidate should possess a strong back- ground in research involving vertebrate animal models and research methodologies. This post is open to major responsibility for administering the medical center’s re- search facilities including direct oversight of the animal research facility. Proven supervisory ability, knowledge of government regulations governing use of animals in research, and experience in laboratory animal management are prerequisites. Interested candidates should send curriculum vitae to: Elaine Murtha, Employment Manager, Department RA, LIONHEART, 800 Hempstead Tpke, New Hyde Park, NY 11042, Equal Opportunity Employer.

RADIATION ONCOLOGIST

Columbia University College of Physicians and Sur- geons invites applications for faculty positions at the associate professor level. Responsibilities include patient care, teaching, and research.

Requirements: New York State medical license and Board certification in therapeutic radiology, narcotics license acceptable. Send curriculum vitae to: James D. Cox, M.D., Radiation Oncology, 622 West 168th Street, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.

Applications are being accepted from candidates with a Ph.D. in Biochemistry with postdoc- toral experience in neurochemistry and neuropharmacology. Experience must include analytical methods, includ- ing GC/MS and receptor biochemistry in primary tissue cultures including molecular mechanisms of signal transduction, and versatility in behavioral testing and neurochemistry.

The position is located at Georgetown University Medical School (FGIN), it is a faculty appointment as a RESEARCH ASSISTANT PROFESSOR (not ten- ure track) in the Department of Biochemistry, with a salary of $32,000 per year. If interested, please send resume to: Director, FGIN, 300 Reservoir Road, NW, Washington, DC 20007.

RESEARCH ASSISTANT PROFESSOR position available in the Department of Biochemistry and Biophysics to work on instrumentation and software develop- ment of the in vivo NMR spectrometer. Candidate must have strong electronics engineering and computer program- ming background and a Ph.D. in electronics engi- neering or biophysics, with strong related skills. Candi- dates should forward curriculum vitae and arrange for three letters of reference to be sent to: Dr. Franz Matschinsky, Chairman, Department of Biochem- istry and Biophysics, University of Wisconsin, School of Medicine, Philadelphia, PA 19104-6059. Equal Opportunity/Affirmative Action Employer. Minority and women are encouraged to apply. Applications must be submitted by 30 October 1987.

U.S. Environmental Protection Agency, Environmental Research Laboratory, Narragansett, Rhode Island is seeking applicants to fill three of the following 2-year TERM positions to accomplish multidisciplinary re- search in the areas indicated. Salary range GS-11 $27,172 to $35,326 and GS-12 is $32,567 to $42,341.
1) RESEARCH ANALYTICAL CHEMIST, GS- 12, $32,567 plus comprehensive medical benefits. GC/MS and characterize chemical effects through structure-activity relationship.
2) RESEARCH PHYSICAL OCEANOGRAPHER, GS-11, develop and apply deterministic and probabilistic models for describing transport, transfar- mation, and fate of pollutant particles. GS-12, $32,567 plus comprehensive medical benefits. Characterize chemical effects through structure-activity relationship.
3) RESEARCH PHYSIOLOGIST (MARINE IN- VERTEBRATE), GS-11, develop methods for demon- strating physiological condition of marine invertebrates exposed to pollutants in the marine environment.
4) RESEARCH BENTHIC ECOLOGIST, GS-11, characterize the structural and functional changes in marine benthic communities perturbed by anthropogenic- materials and activities.
5) RESEARCH TOXICOLOGIST/PHARMA- COLOGIST, GS-11, develop and interpret toxicological events and processes associated with chemically-induced toxicological responses in marine organisms.
6) RESEARCH MARINE HYDROLOGIST, GS-12, develop methods for interpreting the effects of chemicals, complex wastes and nutrients on aquatic plants.
7) RESEARCH ECOLOGIST (BENTHIC), GS- 12, develop methods to assess the toxicity of sediment associated pollutants to marine organisms for establish- ing ecological thresholds.

We are working with three Office of Personnel Man- agements (OPM) to fill these positions, call the appropri- ate OPM office and leave your name, address, and title of preferred office of interest. OPM will then mail you an application package. For positions 1 and 2 call the OPM Boston at 617-223-2871. For positions 3, 4, 5, 6 call the OPM Hartford at 203-722-3906. For posi- tion 7 write to OPM Seattle, 915 Second Avenue, Seattle, WA 98174. Applicants must be U.S. citizens.

The U.S. Environmental Protection Agency is an Equal Opportunity Employer.
Biotechnology Research and Development

Pandex, a division of Baxter Healthcare Corporation, is developing state of the art products for medical diagnostics.

We are expanding our R&D group and offer unique opportunities for creative Ph.D. level Scientists interested in positions that offer challenging opportunities for professional career growth.

We are seeking the following key individuals:

**Nucleic Acid Chemist** - Ph.D. with 0-3 years postdoctoral experience in DNA/RNA synthesis.

**Molecular Biologist** - Ph.D. with 2-3 years postdoctoral experience in DNA cloning and synthesis of DNA probes.

**Assay Development Scientists** - Ph.D. with 3-5 years postdoctoral or industrial experience in immunology, virology or microbiology with knowledge of immunoassay techniques.

**Virologist** - Ph.D. with 0-3 years postdoctoral experience or equivalent in retrovirology.

**Microbiologist** - Ph.D. with 0-3 years postdoctoral experience in the area of STD’s.

As a division of a multi-billion dollar leader in the healthcare industry with research facilities located 30 miles north of Chicago, we offer a competitive starting salary and an excellent benefits program.

If you would like to be considered, please send your resume in confidence to: Anne McNicholl, Personnel Director, Baxter Healthcare Corporation, Pandex Division, 909 Orchard Street, Mundelein, IL 60060. We are an equal opportunity employer.

Pandex Division

Baxter

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PROGRAM MANAGER

The Office of Naval Research is seeking a highly qualified individual to plan and manage the contract basic research program in Ocean Technology. The research is conducted primarily at universities and oceanographic institutions. This is a Civil Service position at the GM-13/14/15 levels ($38,727–$69,976), depending on qualifications.

The incumbent will establish goals, initiate, organize, direct, and market research programs in unexplored areas involving fundamental concepts in the field of ocean engineering, primarily, and oceanographic sensing, secondarily. The ultimate goal is to determine and understand constraints which the marine environment places on the ability of the Navy to accomplish its offshore and nearshore work and sensing missions. Research will be directed to complex multi-disciplinary problems involving all aspects of working on and in the sea.

Applicants must have a Ph.D. or equivalent in an engineering or applied physics discipline related to ocean technology and at least one year of professional experience, or have acquired a minimum of three years of progressively responsible professional experience. A background including the following is preferred: (1) basic research experience, (2) an outstanding research publication record, (3) significant management experience in directing/executing research, (4) knowledge of one or more of the following areas: fluid-structure interaction, ocean or harbor structures, naval architecture, undersea work systems and vehicles, submarine cables, and oceanographic instrumentation and (5) the ability to manage interdisciplinary engineering research projects.

To apply send a Standard Form 171, Application for Federal Employment, (available at Federal Job Information Centers or from the address below), and a list of publications to:

OFFICE OF THE CHIEF OF NAVAL RESEARCH
Civilian Personnel Division, Code 01242P Attn: Announcement #87–93 (S)
800 North Quincy Street, Arlington, VA 22217-5000

Applications will be accepted through 6 November 1987 and must be received by that date. Applicants are requested to complete the appropriate supplemental forms. For further information and supplemental forms, please call (202) 696-4705.

U.S. CITIZENSHIP REQUIRED  •  AN EQUAL OPPORTUNITY EMPLOYER
RESEARCH ASSOCIATE/POSTDOCTORAL FELLOW: Opportunity to join laboratory investigating catecholamine neuronal plasticity and catecholamine receptors in vivo using biochemical and anatomical approaches. Preference will be given to applicants with some experience in ELISA, immunocytochemistry, and radioimmunoassay. M.D. or Ph.D. in anatomy, biochemistry, or pharmacology. Position and salary based on experience. Please send curriculum vitae to: Dr. James N. Davis, Box 29000, Duke University Medical Center, Durham, NC 27710. Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE/POSTDOCTORAL POSITION, available immediately for an immuno- electron microscopist. Experience with immunogold methods, and isolation and characterization of antibodies, highly desirable. Projects involve localization of specific antigens in neural/nerve tissues. Send curriculum vitae and names of three references to: Dr. Ian S. Zagon, Department of Anatomy, M. S. Hershey Medical Center, P.O. Box 850, The Pennsylvania State University, Hershey, PA 17033. Deadline for applications is 1 January 1988. Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATES
Seek two 12-month non tenure leading research associates (postdoctoral fellows). Responsibilities include the investigation of the biology, biochemistry, and molecular biology of viruses that infect a unicellular, eukaryotic Cilioid-like green alga. Investigations will include the viral infection process, viral replication, and viral gene expression. Experience with recombinant DNA techniques is highly desirable. Available January 1987 or sooner. Salary $20,500 per year. Remit application letter including résumé, transcripts, and three letters of reference by 1 October to: Dr. James L. Van Etten, Department of Plant Pathology, IANR, University of Nebraska–Lincoln, Lincoln, NE 68583–0722. Affirmative Action/Equal Opportunity Employer.

Cell Biology Research
The Upjohn Company, a world leader in the research and development of pharmaceuticals, has several Associate positions available in Cell Biology Research. Knowledge and experience in protein purification, tissue culture, and/or hybridoma technology are highly desirable. Familiarity with the role of protein kinase C in cell growth and differentiation would be a plus. A BS degree in Cell Biology, Microbiology, Biochemistry or related science with several years of relevant experience is necessary, or an MS degree in a related science and solid academic achievement. Candidates should have a demonstrated ability to work independently in basic research and support roles, and will be expected to make intellectual contributions.

Kalamazoo is located in southwestern Michigan midway between Chicago and Detroit and offers varied cultural events, cosmopolitan shopping and entertainment, lakes and woodlands minutes away, abundant year-round sports and recreation. Upjohn offers advancement opportunities. Responsibilities include preparing an Equal Opportunity Employer M/F.

Syracuse Biology Research
Syracuse University is embarking on a major program of growth and development in biology. Substantial increases in the number of faculty and in the quality and extent of research facilities and support will occur during the next five years. We seek applications and nominations of candidates for the position of chairperson to lead this program.

Candidates must have distinguished records and currently active programs in research. Strong qualities of leadership, and demonstrated administrative skills. Women and members of minority groups are encouraged to apply. Applications received by November 1, 1987, will receive full consideration. The appointment is to take effect July 1, 1988. If possible.

Interested applicants should send a curriculum vitae to:

Dr. Philip B. Dunham
Search Committee Chair
Department of Biology
Syracuse University
Syracuse, New York 13244-1220
ASSOCIATE SENIOR INVESTIGATOR

The successful candidate must have a Ph.D. or equivalent experience in a chemical or biochemical discipline with extensive hands-on experience in modern methods of MS analysis and data interpretation. The principal duties include operation and maintenance of mass spectrometers and associated chromatographic interfaces, interpretation of MS data for research chemists and biochemists and writing reports for inclusion in research studies, IND's and NDA’s. This individual is also expected to implement new MS techniques and to participate in ongoing research activities in the MS group. Greatest consideration will be given to candidates with experience in capillary GCMS, CI and desorptive ionization techniques (e.g., DCl and FAB). Experience in microchemical derivatization and HPLC is also highly desirable.

SENIOR CHEMIST/BIOCHEMIST

The successful candidate will have a Bachelor’s or Master’s degree in Chemistry or Biochemistry. Experience in one or more of the following areas is highly desirable: protein and/or carbohydrate biochemistry, HPLC, mass spectrometry and data interpretation. The principal duties include chemical, biochemical and chromatographic manipulations of proteins prior to microsequencing and analysis of facility samples by MS. Our facilities include the latest in computerized high mass range sector, quadrupole and tandem MS instrumentation integrated with a broad range of separation and ionization techniques. The laboratories are also fully equipped for micro-manipulation and structural characterization of proteins and glycoconjugates. The mass spectrometry laboratories are located in our new consolidated R&D campus near Valley Forge, Pennsylvania. We offer an excellent compensation, benefits and relocation package as well as opportunities for personal and professional growth. Publication of research results is encouraged and supported. For confidential consideration, please send your C.V. to Robert F. Obst, R0093, Smith Kline & French Laboratories, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.
Graduate and Postdoctoral Biotechnology Fellowships

Iowa has committed nearly $50 million in the last two years to strengthen an effective program of agricultural biotechnology at Iowa State University. Interdisciplinary research teams are addressing opportunities in basic molecular biology and its applications to agricultural development, including plant, animal, and bioprocessing research.

ISU invites applications for graduate and postdoctoral fellowships in its interdisciplinary program of agricultural biotechnology. Graduate stipends are $15,000 per year. Postdoctoral salaries are $22,000-$26,000, plus an additional 21.7% fringe benefits paid by the university.

Graduate and postdoctoral fellows will be a part of active and stimulating research programs; will use state-of-the-art instrumentation for nucleic acid, protein, cell, and fermentation research; and will interact with international leaders in biotechnology research through seminars, symposia, and workshops.

For research project descriptions and fellowship application forms, contact the Office of Biotechnology, 1301 Agronomy, Iowa State University, Ames, Iowa 50011. Closing date: January 1, 1988, or until positions are filled.

Iowa State University is an Equal Opportunity Employer. Women, minorities, and members of other protected groups are strongly encouraged to apply.

IOWA STATE UNIVERSITY
Ames, Iowa

BIOLOGIST

The Energy Conversion and Utilization Technologies (ECUT) Program of the Office of Energy Utilization Research in the U.S. Department of Energy (DOE) has an immediate opening for a Biologist. Experience is desired in research relevant to the energy efficient biocatalyzed conversion of feedstocks to chemicals and fuels. Applicants must possess a bachelor's or higher degree in biological sciences, agriculture, natural resources management, or allied disciplines pertinent to the position being filled. A Ph.D. degree is desirable in one of the biotechnology related disciplines such as Bioprocess Engineering, Fermentation Technology, Microbiology, Molecular Biology, Enzymology, Biochemistry or Quantum Biology. Applicants must also have at least three years of additional experience in some aspect of biotechnology R&D. The appointment is a permanent full time position at the GS-14 level, $45,763 to $59,488 per year depending upon education and experience.

Duties: The incumbent will be responsible for planning and managing an applied biotechnology research program of national scope which includes activities such as the design of (bio) catalysts, genetic engineering of high-productivity microorganisms and research on innovative bioreactor/separation concepts. Program implementation is accomplished through field organizations such as government laboratories, university grants or competitively selected industrial contracts.

Interested persons should submit a Standard Form 171 "Application for Federal Employment" (available at Federal Job Information Centers or from the address below) to:

Department of Energy
Office of Personnel, MA-205.2
Attn: Vacancy Announcement 87-CE-077
1000 Independence Ave., S.W.
Washington, D.C. 20585

For further information contact Jeffrey Dowell on 202-586-8563.

Applications must be received by the above office on or before October 31, 1987, in order to be considered. DOE is an equal opportunity employer and qualified women and minorities are encouraged to apply. United States Citizenship is required for employment in the Federal Government.

Research Triangle Universities Plant Molecular Biology Graduate and Postdoctoral Fellowships

Duke University, North Carolina State University, and the University of North Carolina at Chapel Hill formed a Consortium in 1983 to advance studies in molecular biology of green plants and other photosynthetic organisms. With support from RJR Nabisco, CIBA-GEIGY and the North Carolina Biotechnology Center, the Consortium will provide a limited number of graduate and postdoctoral fellowships in 1988 for study and research in plant molecular biology at the three Triangle universities. Candidates must be U.S. citizens. Each fellowship must be based in a plant molecular biology laboratory at one of the universities, but will participate in activities involving faculty and students at all three institutions. The goal of the Consortium is to enhance the community of plant molecular biologists among universities and participating companies.

The graduate student stipend is $10,000 plus tuition, with an allowance for supplies and travel. The award is renewable for an additional two years. The postdoctoral stipend is $21,500, subject to university policies, with an allowance for supplies and travel. The postdoctoral award is renewable for an additional year. Predoctoral candidates must apply directly to the departments and graduate schools of their choice. In addition, applicants must send copies of each application directly to the North Carolina Biotechnology Center, including 1) a brief statement of research and career interests, 2) copies of all transcripts and 3) copies of GRE scores. Applicants should also arrange to have copies of three letters of recommendation sent directly to the North Carolina Biotechnology Center. All materials are due by February 1. Acceptance at one or more of the three universities is a prerequisite of the Fellowship Program.

Postdoctoral applications must be submitted by February 1 and should follow the format of NIH postdoctoral applications, complete with detailed research plan, and three letters of recommendation. Postdoctoral candidates must identify a suitable faculty sponsor at one of the three universities and develop a mutually acceptable research program with that sponsor. The applicant is responsible for the sponsor's submission of a statement to the North Carolina Biotechnology Center of what the sponsor will commit to the program.

All materials for both predoctoral and postdoctoral applications must be received at the North Carolina Biotechnology Center by February 1, 1987. Award announcements will be made by March 15, 1987.

North Carolina Biotechnology Center
P.O. Box 13547
Research Triangle Park, NC 27709-3547

CYTOGENETICIST

The Cytogenetics Department of SmithKline Bio-Science Laboratories has an opening for a service oriented ABMC eligible or certified clinical cytogeneticist. The responsibilities of this position include karyotype interpretation and supervision of quality control, workflow, and personnel in a high volume laboratory that specializes in postnatal and hematological cytogenetics. Address resume to Susan Gates, Personnel Department, SmithKline Bio-Science Laboratories, 7600 Tyrone Avenue, Van Nuys, CA 91405.
It’s What Made You Become A Scientist In The First Place.

The opportunity to do important research — work that really makes a difference. And at Cetus, you'll have that opportunity, because we're committed to pioneering work in pharmaceuticals and biotechnology. We offer you the resources to do that work — in a stimulating environment with the support of other dedicated, knowledgeable professionals. We currently seek a specialist in:

Autoimmunity Research

You may be involved in establishing relevant in vitro and/or in vivo models to investigate the cellular interactions of chronic synovitis in rheumatoid arthritis or allied chronic inflammatory responses.

A background in examining the mechanism of pannus formation as well as cartilage and bone destruction is desirable.

Alternately, you may establish relevant animal models for autoimmune diseases. In this case, your background should include working with spontaneous and antigen-induced models.

You should possess a PhD/MD/DVM and at least 2 to 3 years of relevant experience for either function.

Please send resume in confidence to:

Cetus Corporation
Box IBS2
1400 Fifty-Third Street
Emeryville, CA 94608

We are an equal opportunity/affirmative action employer.

Manager of Clinical Research

At Cetus Corporation, we are accelerating our progress towards building a fully integrated, international pharmaceutical company. And we seek a Manager of Clinical Research to help optimize our success.

You will be responsible for coordinating the overall planning and execution of clinical trials. Additionally, you will facilitate the generation and quality assurance of all clinical reports used for FDA submission. This will include auditing raw data and reviewing/editing documents to meet FDA submission standards.

You should possess a BS/MS and at least 8 years experience in clinical/pre-clinical research coordination or project management within a pharmaceutical environment. This experience should include demonstrated technical writing and project coordination skills.

Please send your resume in confidence to:

Cetus Corporation
Box BIS
1400 Fifty-Third Street
Emeryville, CA 94608

We are an equal opportunity/affirmative action employer.

Research Associates
Protein Biochemistry

Genentech, Inc., a leader in the field of biotechnology, has openings for Research Associates to be responsible for isolation and characterization of natural product proteins and peptides.

Positions require an MS and 2 years' lab experience or a BS and 4 years' lab experience in biochemistry, physical chemistry, or related field. Experience in chromatography, HPLC and micro-analytical characterization techniques are also necessary. Purification of biologically active peptides or proteins and familiarity with biochemical assays is preferred.

Genentech, Inc. offers excellent salaries and benefits. Please send resume to: Genentech, Inc., Dept. SW2117, 460 Point San Bruno Blvd., South San Francisco, CA 94080. An equal opportunity employer.
VISITING ASSISTANT PROFESSOR POSITIONS to begin 1 January 1988 for 18 months.
(i) To teach a project-oriented laboratory course in recombinant DNA technology. (ii) To teach a graduate lab course in hybridoma preparation. Possibility for teaching in the open semester and summer. Successful candidates will be selected subsequently for tenure-track appointments. Applicants should have a Ph.D. and research experience in the appropriate field. Submit curriculum vitae, names of three references to: Dr. Michael C. O’Neill, Department of Biological Sciences, UMBC, Catonville, MD 21228. UMBC is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

THE UNIVERSITY OF CONNECTICUT

TEMPORARY FACULTY POSITIONS. The Department of Biological Sciences, University of Maryland Baltimore County (UMBC) invites applications for:

VISITING ASSISTANT PROFESSOR POSITIONS to begin 1 January 1988 for 18 months. (i) To teach a project-oriented laboratory course in recombinant DNA student level. (ii) To teach a graduate lab course in hybridoma preparation. Possibility for teaching in the open semester and summer. Successful candidates will be selected subsequently for tenure-track appointments. Applicants should have a Ph.D. and research experience in the appropriate field. Submit curriculum vitae, names of three references to: Dr. Michael C. O’Neill, Department of Biological Sciences, UMBC, Catonville, MD 21228. UMBC is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

UNIVERSITY OF PENNSYLVANIA

TWO TENURE-TRACK POSITIONS to begin at the assistant professor level are available in the Department of Human Genetics, University of Pennsylvania. Candidates with postdoctoral experience in molecular biology and a record of research in genetics are urged to apply. The Department of Human Genetics is seeking to expand its research program in molecular biology, with an emphasis on development. The positions are to be filled with researchers who can develop independent programs in the areas of gene regulation, development and differentiation, oncogenesis or neuroscience. Send curriculum vitae, names of three references to: Robert L. Nussbaum, M.D., Department of Human Genetics, University of Pennsylvania, Room 619, 3610 Spruce Street, Philadelphia, PA 19104-6072. An Equal Opportunity/Affirmative Action Employer.

TENURE-TRACK FACULTY POSITION IN PLANT PATHOLOGY, University of Colorado, Boulder. The University of Colorado is expanding and broadening its program in research and teaching in plant sciences. The Department of Geobiology and the Laboratory for Atmospheric and Space Physics invite applications for a joint tenure-track faculty position in the field of plant sciences. We seek a scientist with a record of independent research in one or more of the following areas: (i) physiology, morphology and development of plant organs; (ii) geobiological evolution of planetary surfaces; (iii) planetary surface-atmosphere interactions. Preference will be given to candidates with postdoctoral experience. Applications from candidates at a higher level will be considered. The appointment will begin August 1988. Applicants should have a strong commitment to research, with teaching in graduate and undergraduate levels. To apply, please send curriculum vitae and arrange for three letters of reference to: Dr. Frank H. Geobiology, University of Colorado, Phone: 303-492-6988.

TRAINING PROGRAMS

TOXICOLOGIST

The University of Texas–Houston, School of Public Health, has an opening in a tenure-track position for an assistant professor of toxicology. A Ph.D. in toxicology and/or toxicology-related sciences with research teaching experience in general toxicology is required. Responsibilities include teaching a two-semester toxicology course in the M.P.H., M.S., Dr.P.H. and Ph.D. programs and conducting research in environmental and/or industrial toxicology. Application deadline is 1 November 1987. Send a detailed resume before 1 November 1987 to: Dr. E. W. Fairchild, The University of Texas, School of Public Health, P.O. Box 20186, Houston, TX 77225. An Equal Opportunity Employer. Women and minorities are encouraged to apply.

TRAINING PROGRAMS

POSTDOCTORAL POSITIONS IN MOL ecular Biology

A diversified, interdisciplinary Training Program in Molecular Biology with more than 20 research teams with excellent research support. Areas of research include:

TUMOR VIROLOGY

MMTV and B cell differentiation

Tumor cell surface glycoproteins in mammalian cancer

SV-40 and adenovirus gene expression

Molecular virology of AIDS

ONCOGENES

Adenovirus and heat-shock genes

Chromosomal mapping of oncogenes

Molecular cloning of oncogenes

Effect on cell-cell communication

Developmental expression of oncogenes

In muscle cell development

Polypeptide hormones

Colony-stimulating factor, granulopoiesis and cell differentiation

Interleukin-2 receptor

This 3-year program is designed for Ph.D., Ph.D./ M.D. or M.D. candidates with academic research objectives. M.D.s may enter a combined molecular biology and endocrinology residency program. High successful candidates will be encouraged to compete for independent research support and may be considered for future faculty positions. Salaries are competitive. Open only to U.S. citizens or permanent residents. Send curriculum vitae and references to: Dr. Charles Goldenberg, University of Miami School of Medicine, Department of Microbiology and Immunology, P.O. Box 016960 (R138), Miami, FL 33101. An Equal Opportunity/Affirmative Action Employer.

TRAINING IN NEUROENDOCRINOLOGY

An informal group in neuroendocrinology offers postdoctoral training in the Departments of Physiology and Medicine at the University of California, San Francisco. Neuroendocrine mechanisms are central to the Ph.D. degree in endocrinology, neuroscience or physiology is also available. Research in the group is focused primarily on neuropeptide formation and secretion. Applications to the Admissions Committee are invited from the National Institutes of Health (DK07265) are available and are open to qualified U.S. citizens or permanent residents of the United States. Other postdoctoral fellowships are available and often can be arranged for noncitizens. For further information write: William F. Ganong, M.D., Department of Physiology, University of California, San Diego, La Jolla, CA 92122-0444. An Equal Opportunity Employer.

ADAMHA is seeking applicants for the Robert H. Felix Science Associates Program. This program will award limited number of basic science positions from outside the Federal Government with the opportunity to participate in research administration or policy development for the extramural research programs in one of the three ADAMHA Institutes—National Institute on Alcohol Abuse and Alcoholism (NIAAA), National Institute on Drug Abuse (NIDA), National Institute of Mental Health (NIMH), or the ADAMHA Office of the Administrator (OA).

Positions in the program may be filled by a variety of special temporary appointments ranging from 12 to 24 months. Persons interested in this program should contact: Lana R. Skirbell, Ph.D., Office of Science, ADAMHA, Telephone: 301-443-4388.

Bugsen Broumas Office Director, NIMH Telephone: 301-443-0441

Jean Paul Smith, Ph.D. Office of Science, NIDA Telephone: 301-443-4375

Mark Greens, Ph.D. Office of Scientific Affairs, NIAAA Telephone: 301-443-4375

A Science Scholars Program is available to senior scientists by invitation only.

ADAMHA is an Equal Opportunity Employer.

TRAINING PROGRAMS

POSTDOCTORAL TRAINING IN MATERNAL AND CHILD NUTRITION. Position is available immediately on an NHI training grant. Biochemical, epidemiological, and/or behavioral research projects can be developed on basic or applied topics that use the unique nutrition laboratory facilities of the Illinois State University and/or other institutions in the U.S. or other countries. Applicants must be U.S. citizens or permanent residents and have completed requirements for the doctoral degree in nutrition or other nutrition-related field. Send curriculum vitae and names of three references to: Dr. K. M. Rasmussen, Program Director, Illinois State University, 1110 W. State Street, Normal, IL 61761. Equal Opportunity/Affirmative Action Employer.

A Science Scholars Program is available to senior scientists by invitation only.

ADAMHA is an Equal Opportunity Employer.

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A Science Scholars Program is available to senior scientists by invitation only.

ADAMHA is an Equal Opportunity Employer.

TRAINING PROGRAMS
DIRECTOR, DIVISION OF VIRAL DISEASES
CENTERS FOR DISEASE CONTROL
ATLANTA, GEORGIA

Applications and nominations are invited for a scientist to serve as Director, Division of Viral Diseases (DVD), Center for Infectious Diseases. This position involves responsibilities for leading one of the most diverse units at the Centers for Disease Control. The mission of the DVD is to conduct integrated epidemiologic and laboratory investigations of viral and rickettsial diseases of national and international importance. The staff of the Division comprises over 190 professional, technical, and administrative personnel, including over 60 doctoral level scientists. The facilities of the Division include laboratories and equipment for all virologic and rickettsial technologies. A new virology building to be completed in 1988 will house the most advanced, maximum and high containment virus/rickettsia laboratories in the world.

This position is in the Federal Government and may be filled by a candidate appointed to the Civil Service, Commissioned Corps of the U.S. Public Health Service, or Senior Executive Service. Salary may range up to $73,400 per year depending upon the pay system and qualifications of applicants. (Physicians may be entitled up to an additional $10,000 allowance.)

Candidates must have an earned doctoral degree (M.D., Ph.D. or equivalent) and a record of distinguished achievement in virology/viral diseases.

Interested individuals are invited to submit a curriculum vitae, list of publications, and names of 3 references to: Mrs. Sharon L. Wilkinson, Personnel Management Office, Mail Stop DO1, Centers for Disease Control, Atlanta, GA 30333, no later than October 31, 1987. Further information about the position can be obtained from: Dr. Stephen A. Morse, Centers for Disease Control, Mail Stop C12, Atlanta, GA 30333, Tel. (404) 329-3222.

CDC is an equal opportunity employer. CDC provides for a smoke-free work environment.

POSTDOCTORAL FELLOWSHIPS
THE GOLDA MEIR FELLOWSHIP FUND
The Hebrew University of Jerusalem
JERUSALEM, ISRAEL

The Hebrew University of Jerusalem invites applicants for Postdoctoral Fellowships in Humanities, Social Sciences, Natural and Applied Sciences, Agriculture and Medicine for the 1988-89 academic year.

Candidates may apply at an early stage of their professional career (not later than 3 years after completion of their doctoral dissertation).

The fellowships are tenable for one academic year and may be extended for another year.

The fellowship provides a 12-month stipend (with COL adjustments), rent allowance and a return ticket to Israel.

Application forms can be obtained from the Office of University Funds, P.O. Box 1255, Jerusalem, 91904, Israel.

Completed application forms must be returned by December 1, 1987.

MOLECULAR BIOLOGISTS

Program Resources, Inc. (PRI) is at the forefront of biomedical research, paving the way for new programs and discoveries at the National Cancer Institute-Frederick Cancer Research Facility, Frederick, MD. We have immediate opportunities available in the Laboratory of Cell and Molecular Structure, a multidisciplinary laboratory with programs in molecular genetics, virology, immunology, and cell biology, as well as ongoing commitments to AIDS and related retrovirus research.

STAFF SCIENTISTS

Two staff positions exist for scientists with a PhD in Molecular Biology or a related field of study and two or more years of postdoctoral experience in recombinant DNA technology. Candidates should have interests in gene structure/function and expression, and demonstrated skills in DNA sequencing, molecular cloning, restriction enzyme mapping, preparing and screening genomic and cDNA libraries, prokaryotic and eukaryotic expression vectors, and modern computational methods for DNA sequence analysis.

Responsibilities will include participating in new and ongoing research projects, and providing expertise and assistance in DNA/RNA characterization to various research teams. The ability to teach, devise suitable protocols, and function as a team member is essential.

POSTDOCTORAL SCIENTISTS

These positions require a PhD in Molecular Biology, Virology, or Biochemistry, and a strong record of achievement. Appointments are for one year, but may be considered for renewal on a yearly basis for up to three years.

Selected candidates will work with senior staff scientists in conceiving, developing, and solving a variety of research problems in contemporary virology. Emphasis will be placed on AIDS, human immunodeficiency virus, and related retrovirus (lentivirus) research. We will provide training in recombinant DNA technology in state-of-the-art labs that stress technology development. Opportunities to publish and attend meetings will be available.

RESEARCH TECHNICIANS

We are looking for individuals with a BS or MS degree in the Biological Sciences and at least one year of experience with recombinant DNA technology. Candidates must be skilled in DNA sequencing, cloning, restriction enzyme mapping, blotting, and propagating and purifying plasmids and phage.

In addition to the exciting professional challenges you'll find at PRI, we provide a competitive salary and excellent benefits, including a tax-deferred savings plan, a health and dental plan, educational assistance, a credit union, and more. Relocation assistance is available at the PhD level.

Find out what the future holds for you at NCI-FCRF. Please send your resume to: Program Resources, Inc., Personnel Department, NCI-Frederick Cancer Research Facility, P.O. Box B, Building 244, Frederick, MD 21701. An Equal Opportunity Employer, M/F.

PRI
PROGRAM RESOURCES, INC.
TRAINEESHIPS

POSTDOCTORAL TRaineE
M.D./Ph.D.

To obtain 2 years in specialized training in molecular biology and cell biology related to dermatology research. Research programs include: control mechanisms of epidermal proliferation, development in human fetal skin, regulation of gene expression in human epidermis, characterization of cytokeratins and basement membrane protein in normal epidermis and those with genetic disease. Applicants must have completed N.R.S.A. U.S. citizenship requirements. Available 1 November 1987. Send curriculum vitae, brief description of research interests, and names and addresses of three references to: Leland I. Goldsmith, M.D., Professor and Chairman University of Rochester Department of Dermatology 601 Elmwood Avenue, P.O. Box 697 Rochester, NY 14642

COURSE

MOLECULAR ENDOCRINOLOGY AND TECHNIQUES FOR \hspace{1pt} the \hspace{1pt} STUDY \hspace{1pt} OF \hspace{1pt} ACTION
21 to 26 February 1988

This course will consist of lectures in methodology with comprehensive syllabus covering receptors, gene transcription, mRNA and protein synthesis, recombination DNA, and antisense nucleic acid methods. Co-directors: W. T. Schrader and B. W. O'Malley Fee: $365 ($245: fellows and students)

For further information contact: Ronnie Gottlieb Department of Cell Biology Houston, Texas 77030 Telephone: 713-799-6200 Deadline—29 January 1988

FELLOWSHIPS

CANCER RESEARCH POSTDOCTORAL FELLOWSHIPS—Positions available for postdoctoral research training in oncology. Ph.D. or M.D. Program areas: carcinogenesis, clinical immunology, clinical research, endocrinology, epidemiology, immunology, molecular genetics, and radiobiology. Contact: Norris Cotton Cancer Center Administration, Dartmouth-Hitchcock Medical Center, Hanover, NH 03756, Affirmative Action/Equal Opportunity Employer.

FELLOWSHIP THORACIC ONCOLOGY

A position is available (starting January 1988) in the Department of Thoracic Surgery and Oncology at the Roswell Park Memorial Institute, Buffalo, NY.

The core of the training will be centered around diagnosis, treatment, and research in the intractable malignancies, especially lung cancer. Areas of interest include chemotherapy, immunotherapy, research in lung cancer immunology, and lung transplantation.

The fellow must have had at least 3 years of approved residency training in the U.S.

Interested candidate should contact: H. Takida, M.D., D.Sc., F.A.C.S., Chief, Department of Thoracic Surgery and Oncology, Roswell Park Memorial Institute, 666 Elm Street, Buffalo, NY 14263, Telephone: 716-845-2200.

HERBERT H. JASPER POSTDOCTORAL RESEARCH FELLOWSHIP IN NEUROSCIENCE available. Position provides 1 year's salary and use of the exceptional facilities of the Center for Research in Neurological Sciences, McGill University, which works closely with investigators of choice, within a large group currently studying a wide range of topics in the vertebrate nervous system. Further information and application forms available from: Fellowship Office, Center for Research in Neurological Sciences, Department of Neurology and Neurosurgery, McGill University, 3600 McTavish, Montreal, Quebec, Canada H3C 3J7. Deadline: 31 December 1987.

GENETIC APPROACHES TO AGING RESEARCH

Pre- and postdoctoral training positions available via faculty of pathogenesis, genetics, biochemistry, and molecular genetics. George M. Martin, M.D., Director. Department of Pathology SM-30, University of Washington, Seattle, WA 98195. Equal Opportunity/Affirmative Action Employer.

FELLOWSHIPS IN FREE RADICAL BIOLOGY

Research opportunities in a multidisciplinary program dealing with biochemical, cellular, physiological, and clinical aspects of radiation injury to the CNS, lung, and GI system. Current research includes study of production and modulation of free radical injury in cell culture systems. Send curriculum vitae to: Bruce Freeman, Ph.D., Sadas Matalon, Ph.D., or Dale Parks, Ph.D., Department of Anesthesiology, University of Alabama at Birmingham, Birmingham, AL 35233. Telephone: 205-934-1111.

MOUNT DESERT ISLAND BIOLOGICAL LABORATORY

1988 MARKER SUMMER FELLOWSHIPS

The MDI Biological Laboratory, an internationally renowned research institute for comparative physiology and marine biology, offers summer research fellowships specifically for graduate students. Applications are invited from postdoctoral investigators in the biological/biomedical sciences who are in the early phase of their careers and who are interested in independent research. Fellowships include laboratory space, housing and supply allowances, depending on individual needs. The MDIBL emphasizes the use of marine organisms as tools for basic and applied biological research, including pharmacology and toxicology. Applications may be obtained by contacting the office or Associate Director, Dr. Donald A. McCormann, at P.O. Box 35, Sabbath Cove, ME 04672 or telephone: 207-288-3605. Deadline for completed applications is 1 December 1987.

POSTDOCTORAL POSITION. A postdoctoral fellowship position is available immediately to study the bacterial enzyme system responsible for the reductive inactivation of digoxin and other cardiac glycosides by Eubacterium lentum. The project involves the use of immunoreagents, hybridoma methodology, and will involve the use of molecular biology; experience in one or more of these areas would be useful. A Ph.D. degree or its equivalent is required. Send curriculum vitae and letters of reference to: Dr. Vincent P. Butler, Jr., Department of Medicine, Columbia University College of Physicians & Surgeons, 650 West 168th Street, New York, NY 10032. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP

Postdoctoral fellowship funded opening in molecular and cellular biology of human prostate inhibitors and hepatic acute phase genes. Send curriculum vitae, including references to: Dr. David Perlmuter, Departments of Pediatrics and Cell Biology, University of Washington Medical School, 660 South Bacliff, Box 8116, St. Louis, MO 63110.

POSTDOCTORAL FELLOWSHIP, CELL BIOLOGY: one position is available to study enhancement of healing, in cell culture, using collagen-based artificial skin, in collaboration with a surgeon. Requirement: Ph.D. in cell biology. Salary $20,000. Send résumé, three letters of recommendation, graduate transcript, and research statement to: Dr. Gary Scher, Director, Center for Protein Research, Albert Einstein Medical Center, York and Tabor Roads, Philadelphia, PA 19141.

POSTDOCTORAL FELLOWSHIP RESEARCH ASSOCIATE

Studies of cell-mediated immune response to and molecular biology of HIV. Ph.D. or equivalent required. Fellowship holder will participate in collaboration with the laboratory of Dr. George Engleman, M.D., Department of Pathology-1235, Stanford University School of Medicine, Stanford, CA 94305. Stanford is an Equal Opportunity/Affirmative Action Employer.

FELLOWSHIPS

Available immediately TWO M.D./Ph.D. FELLOWSHIPS IN REHABILITATION RESEARCH, funded by National Institute on Disability and Rehabilitation Research, awarded by Department of Rehabilitation Medicine, Medical College of Virginia, Virginia Commonwealth University. Fellowships will support physicists in 3-year Ph.D. programs in neurobiological sciences with faculty of investigators with established research programs in pain and neural injury. Special consideration given Physical Medicine and Rehabilitation Residency/Ph.D. program candidates. Stipend is $35,000. Send curriculum vitae and two recommendations to: H. Stonnington, M.D., Chair, Rehabilitation Medicine, MCV Station, Box 677, MC/VVUC, Richmond, VA 23298-0677.

THE UNIVERSITY OF SYDNEY

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PROFESSOR HARRY MESSSEL RESEARCH FELLOWSHIPS IN PHYSICS

Applications are invited for the above postdoctoral fellowships available from January 1988 for research in physics in the University of Sydney. The following fields of research are pursued in the School of Physics: plasma physics (Tokamak, gyrotron), solar energy (thermal, photovoltaic), astrophysics (synthetic radioreceo, astronomy (Michelson stellar interferometer), high energy physics (neutrino physics), environmental physics (radio telemetry), and thermonuclear devices (pertaining largely to the foregoing experimental topics). Further information may be obtained by writing to the Head of the School of Physics.

The annual stipend shall be within the range for University of Sydney postgraduate research fellowships (currently A$24,535 to A$25,330 per annum). The fellowships are tenable for 1 year but may be renewed from year to year.

The University reserves the right not to proceed with any appointment for financial or other reasons. Application forms or further information may be obtained from the Registrar (Scholarships Office), University of Sydney, N.S.W., 2006, Australia. Closing: 1 November 1987.

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- Interactive Laser Cytometry
- Quantitative Fluorescence Analysis
- Applications of Photobleaching
- Cell Surgery and Poration
- Cell Ablation and Selection

LOCATIONS AND DATES

<table>
<thead>
<tr>
<th>Location</th>
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<tbody>
<tr>
<td>New York</td>
<td>Monday, September 28, 1987</td>
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<tr>
<td>Boston</td>
<td>Friday, October 2, 1987</td>
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<tr>
<td>Baltimore</td>
<td>Tuesday, October 13, 1987</td>
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<td>Research Triangle Park</td>
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<tr>
<td>Houston</td>
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<td>Los Angeles</td>
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<td>San Francisco</td>
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<tr>
<td>Chicago</td>
<td>Monday, November 23, 1987</td>
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Workshops will be from 9:00 a.m. to 4:00 p.m. To ensure your place at one of these workshops, please telephone your reservation to Tammy as soon as possible.
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