POSITIONS WANTED

Biochemistry Technology B.S., Research Associate, 1981. Seventeen years of experience (research, industry) in a variety of biochemical, enzymatic, ELISA immunological assays, which involved using radioisotopic techniques, paper chromatography, measure enzyme activities, various colorimetric techniques for locating, quantitating proteins and carbohydrates. Purification and characterization of protein, enzymes. Experienced with gel filtration, ion-exchange, affinity chromatography, gel electrophoresis and isoelectric focusing. Also recombiant membrane, membrane preparation, bacteria culture. Excellent skills. Seeks research/academic/industrial or medical laboratory speaking English in Canada. Box 34, SCIENCE.

Immunologist, Ph.D. Highly qualified scientist currently directing immunology research. Experience in hybridoma technology, large-scale cell culture, tumor-specific immunotherapy, lymphokine-activated killer cells, and biological response modifiers. Seeking academic cancer research position on West Coast. Box 35, SCIENCE.

Physiologist, M.D. Research experience in nephrophysiology (hemodynamics, endocrinology). Clinical experience in general internal medicine. Teaching experience in medical physiology. Box 31, SCIENCE.

Quality Assurance Regulatory Affairs, M.S. (Microbiology/Immunology). Seeking orchestrate position within an academic or industrial setting. Working knowledge of FDA/OSHA regulations. Experience in new product development technology transfer. Familiarity with GMP's, process validation, manufacturing, import/export relating to sophisticated computerized electro-mechanical devices as well as other in vitro systems, with overall compliance. Box 39, SCIENCE.


NOTE: This rate is based on estimates of minimum commission for ads less than 1/6 page and cancellations made for orders. This rate is not available for ads, lines and cancellations made for orders. To ESTIMATE ad cost: Structure ad copy on separate page, on lines of 2 characters and phrases, include any desired heading. Each line of heading, and/or extra line spaces, and all paragraphs (including required reply information) are counted as full lines. Ad titles located within the text are printed in boldface and are only 32 characters per line. In ESTIMATING the cost, multiply total lines x $30.00 = approximate cost of ad. (This is an approximate cost only. Allow for variation between estimated lines and actual type lines and the resulting lines will show extra charges for any added lines.)

CANCELLATION POLICY: NO cancellation allowed after made after Thursday, TUESDAY two weeks prior to issue date; two 10% production charges are added for orders placed less than 4 inches in length prior to issue date. Cancellations must be written as per above.

Send copy for all Positions Wanted ads and Line Classified ads less than 1 1/2 page in size (30 lines) to:

SCIENCE Classified Advertising
1333 H Street, NW, Suite 940
Washington, D.C. 20005
Telephone: 202-335-6555

Send copy for Fractional Display ads, 1 1/2 page and larger, and all Marketplace ads to:

Spring Associates, Inc.
1515 Broadway
New York, NY 10036
Telephone: 212-750-1000

Blind ad replies should be addressed as follows:

Box (give number)
SCIENCE
1333 H Street, NW
Washington, D.C. 20005

POSITIONS OPEN

ANIMAL PHYSIOLOGIST

The Biology Department, Central Michigan University (CMU), invites qualified candidates for a tenure-track, assistant professor position to begin August 1988. A Ph.D. and demonstrated potential for teaching excellence is required. The person will be expected to establish research programs and to contribute to student research (B.S./M.S.). The appointee will teach mammalian physiology/human biology, and undergraduate/graduate courses in his/her specialty. Send curriculum vitae, transcripts, description of research plans and needs, a list of course teaching competence and preferences, a copy of any publication, and telephone numbers of three references to: Dr. Lawrence Koehler, Chairperson, Department of Biology, Central Michigan University, Mt. Pleasant, MI 48859. Deadline: 11 April 1988. Telephone: 517-774-3227. CMU is an Affirmative Action/Equal Opportunity Institution.

ASSISTANT AGRONOMIST: The Department of Agronomy and Range Science, University of California, Davis, invites applications for a 11-month research position as assistant agronomist in the California Agri
cultural Experiment Station. The successful candidate will develop a strong research program on rice cropping systems considering, for example, modern approaches to rice/wheat interactions. Facilities at both the Davis Campus and the Rice Experiment Station in Biggs, California, are available for basic plant sciences with a Ph.D. in agronomy, plant physiology, soil science, or a related discipline is required. Submit curriculum vitae, list of publications, statement of research interests, transcripts, and names and addresses of three references by 1 April 1988, to: Dr. J. E. Hill, Department of Agronomy and Range Science, University of California, Davis, CA 95616. The University of California is an Affirmative Action/Equal Opportunity Employer.

BASIC SCIENST/RESEARCHER. The University of Medicine and Dentistry of New Jersey/School of Osteopathic Medicine's (UMDNJ--SOM) Center for Aging is currently seeking an assistant to fulfill a tenure-track position in the field of gerontology. Required qualifications include a Ph.D. in biochemistry, neuroscience or related field, at least 2 years of relevant postdoctoral experience, demonstrated productivity, and capability of securing extramural support. Applicants should have an interest in CNS degener
tive diseases and a strong background in protein purification and characterization as well as in molecular biology. Contact: C. D. Nordchow, M.D., Ph.D., Chairman, Department of Pathology, Indiana University Hospital 15440, 926 West Michigan Street, Indianapolis, IN 46223. Indiana University is an Equal Opportunity Employer.

GEORGETOWN UNIVERSITY WASHINGTON, D.C. DEPARTMENT OF BIOCHEMISTRY
The Department of Biochemistry of the Georgetown University School of Medicine is recruiting at all levels of re
turn level position as ASSISTANT PROFES
S. We are seeking outstanding candidates with re
search interests in biochemistry and/or molecular biolo
gy. Successful applicants will be expected to establish an
independent research program and participate actively in
graduate and postdoctoral training. Each position will
include undergraduate teaching, graduate student super
vision and the development of an active research program. A well-equipped laboratory is available.

Starting date: 1 July or 1 September 1988. Salary is commensurate with qualifications and experience (current minimum salary $31,247 per annum). In addition to the salary, one research assistant will be provided for the successful candidate. In addition, the successful candidate will have access to the Rayne Medical Research Foundation.

The University of California at Santa Barbara will have 11 tenure-track positions in basic biology, and a number of non-tenure-track positions in the environmental sciences. Applications are invited for all positions. The University is especially interested in candidates who will contribute to its commitment to diversity and excellence in its education and research missions. The University is particularly interested in candidates who will contribute to diversity in its education and research missions. The University is particularly interested in candidates who will contribute to diversity in its education and research missions. The University is particularly interested in candidates who will contribute to diversity in its education and research missions. The University is particularly interested in candidates who will contribute to diversity in its education and research missions. The University is particularly interested in candidates who will contribute to diversity in its education and research missions. The University is particularly interested in candidates who will contribute to diversity in its education and research missions. The University is particularly interested in candidates who will contribute to diversity in its education and research missions. The University is particularly interested in candidates who will contribute to diversity in its education and research missions. The University is particularly interested in candidates who will contribute to diversity in its education and research missions. The University is particularly interested in candidates who will contribute to diversity in its education and research missions. The University is particularly interested in candidates who will contribute to diversity in its education and research missions. The University is particularly interested in candidates who will contribute to diversity in its education and research missions. The University is particularly interested in candidates who will contribute to diversity in its education and research missions. The University is particularly interested in candidates who will contribute to diversity in its education and research missions. The University is particularly interested in candidates who will contribute to diversity in its education and research missions. The University is particularly interested in candidates who will contribute to diversity in its education and research missions. The University is particularly interested in candidates who will contribute to diversity in its education and research missions. The University is particularly interested in candidates who will contribute to diversity in its education and research missions. The University is particularly interested in candidates who will contribute to diversity in its education and research missions.
ASSISTANT PROFESSOR OF MICROBIOLOGY

The Department of Microbiology, University of Illinois, University of Illinois, invites applications for a tenure-track appointment at the assistant professor level. The position is available for July 1988. Applicants must have a Ph.D. degree, and at least 2 years of postdoctoral experience. Preference will be given to applicants having a keen interest in the sequencing and analysis of bacterial genomes. The candidate will be expected to understand cloning and sequencing methodologies and experience in the analysis of sequence data (which includes programming and experience with the analysis of large databases). The appointee is expected to participate in a vigorous research program, to participate in undergraduate and graduate teaching, and to supervise graduate students. Salary is commensurate with education and experience.

Applicants should send curriculum vitae and the names and addresses of three references to: Professor J. Konisky, Head, Department of Microbiology, University of Illinois, 131 Burrill Hall, 407 South Goodwin Street, Urbana, IL 61801. Telephone: 217-333-1737. Applications received after 15 April 1988 may not receive full consideration. Interviews may be conducted before the closing deadline, but a final decision will not be made until after 15 April 1988. The University of Illinois is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, WILDLIFE ECOLOGY AND MANAGEMENT

Academic year, tenure-track position, in the Department of Animal Science beginning 1 September 1988. Teach undergraduate courses in wildlife management principles, management of wetland wildlife, and a graduate level course in wildlife management. Advise undergraduate and graduate students. Develop an active research program in wildlife ecology. Ph.D. in wildlife biology or management required. Demonstrated effectiveness in teaching and research highly desirable. Submit letter of application, resume and official transcripts (three letters of reference should be sent directly to address below) by 1 April 1988 (applications will be accepted until the position is filled) to: Frank Golet, Search Committee Chair, Assistant Professor, Wildlife Ecology and Management (190454) Position, P.O. Box G, Kingston, RI 02881.

ASSISTANT RESEARCH IMMUNOLOGIST

The University of California, San Diego (UCSD) Cancer Center is recruiting a research scientist with a Ph.D. degree in the biological sciences to work in the Clinical Immunology Branch in its research activities into the area of IDIOTYPE control and therapy of cancer. The applicant should have experience in idiotype control studies and reagents in vitro and in vivo. Experience and interactions with clinical investigators of the Cancer Center are expected in the area of anti-idiotype therapy.

Salary is commensurate with experience and the University pays scale. Apply by 1 April 1988 to: Ivo Royston, M.D., Director, Clinical Immunology Program, UCSD Cancer Center, T-411, La Jolla, CA 92033. The University of California, San Diego, is an Equal Opportunity Affirmative Action Employer.

Mercer University School of Medicine invites applications for three tenure-track positions.

ASSISTANT/ASSOCIATE PROFESSOR OF PHARMACOLOGY. Preference will be given to candidates experienced in cardiovascular and/or autonomic pharmacology.

ASSISTANT/ASSOCIATE PROFESSOR OF ANATOMY/CELL BIOLOGY. Preference will be given to candidates with training and/or teaching experience in histology.

ASSISTANT/ASSOCIATE PROFESSOR OF IMMUNOLOGY/MEDICAL MICROBIOLOGY. All applicants must possess a Ph.D. and/or M.D., preferably with postdoctoral training. Candidates will be expected to develop an active research program. Applicants will be contacted after the positions are filled. Candidates are requested to submit curriculum vitae, a brief statement of professional objectives and research interests, and the names and addresses of three references to: Dr. Robert Moon, Chair, Division of Basic Medical Sciences, Mercer University School of Medicine, Macon, GA 31207. An Equal Opportunity/Affirmative Action Employer.

DIRECTOR OF STATEWIDE CYTOGENETICS PROGRAM. Board-certified or eligible cytogeneticist with experience in and interest in molecular biology to direct established cytogenetics laboratory and initiate planning for a regional DNA lab. Primarily service, consultation, and educational duties. Informal letter of interest required. Review of applications will be conducted until positions are filled. Send curriculum vitae and name, address, and telephone of three references to: Dr. Robert Moon, Chair, Division of Basic Medical Sciences, Mercer University School of Medicine, Macon, GA 31207. An Equal Opportunity/Affirmative Action Employer.

BIOLOGY

BALL STATE UNIVERSITY

MUNCIE, INDIANA

ASSISTANT PROFESSOR, tenure-track position in the Department of Biology available fall 1988. We desire innovative, proposal-oriented junior faculty interested in plants and one who is conducting innovative research using tools of biotechnology. We will consider excellent candidates in a wide range of fields; for example: aquatic botany, development, genetics, molecular biology, microbiology, or plant-microbe interactions. Responsibilities: To teach courses such as aquatic biology, ecology, or botany courses and develop a research program in specialty area. Minimum qualification: Earned doctorate in biological sciences. Preferred qualifications: Demonstrated teaching/research ability, postdoctoral experiences, publications and/or evidence of other scholarly contributions. Submit resume, documentation of scholarly activity, e.g., reprints of publications, funded grant proposals, creative activities, three letters of recommendation, and transcripts to: Chair, Botany Search Committee, Department of Biology, Ball State University, Muncie, IN 47306. Application deadline is 1 February 1989. Applicants will be evaluated commencing 20 March 1988, and continue until position is filled. Ball State University is an Equal Opportunity/Affirmative Action Employer in Education and Employment.

BIOMATHEMATICIAN-ASSISTANT PROFESSOR

The Department of Chemistry and Biochemistry, Johns Hopkins University, invites applications for a tenure-track assistant professor position in the area of biomathematics. The successful candidate will have a strong background in mathematical biology. Preference will be given to those with experience in applied mathematics, modeling, and computational biology. The candidate will be expected to initiate a vigorous research program, to engage in undergraduate and graduate teaching, and to supervise graduate students. Salary is commensurate with experience. Submit curriculum vitae, statement of research interest, and names of three references, by 15 April 1988 to: Prof. J. Kopp, Chair, Department of Biochemistry and Molecular Biology, Johns Hopkins University School of Medicine, 725 North Wolfe Street, Baltimore, MD 21205. The Johns Hopkins University School of Medicine is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE PROFESSOR, tenure-track position in the Department of Biochemistry and Biology, Johns Hopkins University. The successful candidate is expected to have a Ph.D. degree, several years of postdoctoral experience, and the abilities to establish and develop a research program and teach human physiology to medical students. Applicants should send their curriculum vitae with bibliography, reprints of several recent papers, a statement of current research interests and goals, and the names of three references by 15 April 1988 to: Stephen J. Kopp, Ph.D., Chairman, Department of Physiology and Biophysics, Johns Hopkins University School of Medicine, 725 North Wolfe Street, Baltimore, MD 21205. Johns Hopkins University School of Medicine is an Equal Opportunity/Affirmative Action Employee.

ASSOCIATE/ASSOCIATE PROFESSOR-The Department of Immunology, University of California, Irvine, invites applications for a tenure-track position available 1 July 1988. Applicants must have a doctorate degree, several years of postdoctoral experience, and the abilities to establish and develop a research program and teach human physiology to medical students. Applicants should send their curriculum vitae, bibliography, reprints of several recent papers, a statement of current research interests and goals, and the names of three references by 15 April 1988 to: Robert J. Kopp, Ph.D., Chairman, Department of Physiology and Biophysics, Johns Hopkins University School of Medicine, 725 North Wolfe Street, Baltimore, MD 21205. The University of California at Irvine is an Affirmative Action/Equal Opportunity Employer.

ASSOCIATE/ASSOCIATE PROFESSOR- The Department of Biochemistry and Biophysics, Illinois Institute of Technology, is seeking to fill a tenure-track faculty position at the assistant/associate professor level. The applicant is expected to have a strong background in protein biochemistry and a demonstrated potential or ability to obtain substantial research funding. The position involves teaching in undergraduate, graduate, and medical courses. Salary and rank commensurate with qualifications. Curriculum vitae and names of three references should be sent to: Chair, Search Committee, Department of Biochemistry and Biophysics, Illinois Institute of Technology, Chicago, IL 60616. The Illinois Institute of Technology is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE SCIENTIST—To conduct collaborative studies on the regulation of coenzyme A metabolism. Applicants must have Ph.D. degree plus two or more years of postdoctoral research experience. A strong background in biochemistry. Preference with experience in protein isolation and purification. Salary commensurate with experience. Send curriculum vitae detailing education and research experiences to: Dr. R. Neher, Weis Science Center for Research, Geisinger Clinic, Danville, PA 17822.

BIOMEDICAL SCIENCE DIRECTOR

The School of Medicine, University of Illinois at Chicago, invites applications for a full-time, tenure-track position in the field of biomedical science. The successful candidate will be expected to establish a research program in a biomedical science area, to participate in the graduate biomedical science program, and to advise graduate students. The appointee must have an active program with demonstrated potential for extramurally funded research. Salary is commensurate with qualifications and experience. Applications should include a current curriculum vitae, list of publications, and three letters of recommendation. Applications should be sent to: Dr. John F. Burns, Director, University Medical Sciences, University of Illinois at Chicago, 1710 W. Taylor Street, Chicago, IL 60612. An Equal Opportunity/Affirmative Action Employer.

The University of Illinois at Chicago is an Equal Opportunity/Affirmative Action Employer.

Dr. Philip F. Harris
Scientific Director
AMC Cancer Research Center
1600 Pierce Street
Denver, CO 80214

AMC is an Equal Opportunity/Affirmative Action Employer.

CELLULAR IMMUNOLOGIST

The Virginia-Maryland Regional College of Veterinary Medicine, Virginia Tech, Blacksburg, VA 24061 invites applications for a tenure-track assistant professor position in cellular immunology. The appointee will be required to develop a productive and extramurally funded research program and to assist in the training of graduate students. Opportunities will be given to share in the teaching of veterinary students and in the clinical service program. Preference will be given to candidates holding a D.V.M. (or equivalent) and a Ph.D. and/or Board certification or equivalent qualification in pathology or microbiology. Significant research interest in molecular aspects of infectious diseases is desirable. Applications should include a current curriculum vitae, a list of publications, a brief outline of teaching, research, and clinical experience, and names and addresses of three references. The names and addresses of three people who will provide letters of reference should be included. Candidates from academic and non-academic sectors are encouraged to apply. Academic rank and salary will be negotiated in relation to background and experience. Closing date for applications is 1 June 1988. Starting date: To be negotiated.

Apply to: Dr. Donald O. Onders, Chairman, Search Committee Department of Pathobiology Virginia-Maryland Regional College of Veterinary Medicine Blacksburg, VA 24061

An Equal Opportunity/Affirmative Action Employer.
POSITIONS OPEN
CELL AND DEVELOPMENTAL BIOLOGIST
MEHARRY MEDICAL COLLEGE

Meharry Medical College has a tenure-track position at the assistant professor level for a cell and developmental biologist in the School of Medicine or the School of Graduate Studies of the Departments of biochemistry or anatomical sciences or the Division of Biomedical Sciences. The appointment will involve teaching graduate and medical students. In addition, development of a research program in an area of interest will be expected. The position is partially supported by a $50,000, 5-year grant to Meharry Medical College from NSF to support research in the Cell and Molecular Biology. The deadline for application is 15 April 1988. Salary is commensurate with experience.

Send curriculum vitae and the names of three references to:

Dr. George C. Hill
Director and Professor
Division of Biomedical Sciences
Meharry Medical College
1005 D. B. Todd, Jr., Boulevard
Nashville, TN 37208
Telephone: 615-327-6193
Equal Opportunity Employer

CELLULAR IMMUNOLOGIST

The Department of General Surgery at Rush-Presbyterian-St. Luke's Medical Center invites applications for a full-time position as assistant professor and associate scientist. Interested applicants must have an M.D. and/or Ph.D. degree with experience in basic tumor and transplant immunology. Ongoing investigations include: phenotypic and functional characterization of tumor-infiltrating leukocytes, therapeutic potential of large granular lymphocytes, human antinuclear antibodies, flowcytometric analysis of solid tumors, and predictors of rejection in renal and hepatic transplantation. Qualifications of the successful applicant should include the ability to pursue a research program bridging basic laboratory investigation with clinically relevant problems in oncology and transplantation. Interested persons should submit a current curriculum vitae and three letters of recommendation to:

Steven G. Economou, M.D., Chairman
Department of General Surgery
Rush-Presbyterian-St. Luke's Medical Center
1653 West Congress Parkway
Chicago, IL 60612

CHAIRPERSON
DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY
UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE
Baltimore

The University of Maryland School of Medicine is conducting a comprehensive search for a new Chairperson for the Department of Microbiology and Immunology. Candidates should have a strong background in contemporary molecular microbiology or immunology and have significant research accomplishments. Persons with previous administrative experience holding either M.D. or Ph.D. degrees will be considered.

Candidates should send a letter of interest and curriculum vitae to:

Dr. J. John Conway
Chairman, Microbiology Search Committee
University of Maryland Hospital (Room N4W46)
22 South Greene Street
Baltimore, MD 21201

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

POSITIONS OPEN
CHAIRPERSON BIOENGINEERING
The College of Engineering of the University of Michigan seeks a major faculty position in Bioengineering. It is our desire to identify a candidate who would also chair the University's Bioengineering Program and play a major role in providing leadership and direction for the Program.

The position would be that of full professor with tenure within an appointment of the College of Engineering. The Bioengineering Program is a joint program of the Medical School and the Engineering College under the auspices of the Horace Rackham School of Graduate Studies. Close ties with the Medical School are desirable and appropriate arrangements such as joint appointments and laboratory space may be made with the Medical School according to the candidate's needs and interests.

The completion of major construction projects recently has provided the College of Engineering and the Medical School with new facilities on contiguous campuses. New facilities under construction will complete the link between several existing engineering buildings and provide significant laboratory and office space for the Bioengineering Program. The College of Engineering has undergone a strong period of growth recently as the result of an intensified commitment to excellence in students, faculty and facilities. After careful review it has been concluded that Bioengineering Program can contribute strongly to the mission of the College of Engineering and the School of Medicine. Thus the College needs a strong leader to represent and guide the Bioengineering Program so that its potential may be realized.

Please send curriculum vitae, three references and a resume to:

Professor William J. Williams,
Search Committee Chairman,
Electrical Engineering and Computer Science Department,
University of Michigan,
Ann Arbor, MI 48109.
Review of applications will begin immediately.

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

CHAIRPERSON
DEPARTMENT OF PSYCHIATRY
UNIVERSITY OF ALABAMA SCHOOL OF MEDICINE
Birmingham, AL 35294

An Affirmative Action/Equal Opportunity Employer

ECOLOGIST

The Department of Biology of Loyola University of Chicago, Lake Shore Campus, invites applications for a 9-month, tenure-track position at the level of assistant professor. A Ph.D. degree in ecology is desirable. Candidates should have demonstrated excellence in research and teaching at the college level and a commitment to undergraduate education. Salary is competitive based on qualifications and experience. Applications with curriculum vitae should be submitted by 15 May 1988 to:

Chadwick K. Millard, Chair
Department of Biology
Loyola University of Chicago
6525 North Sheridan Road
Chicago, IL 60626
An Equal Opportunity Employer.

POSITIONS OPEN
CHAIRPERSON
DEPARTMENT OF FOOD SCIENCE AND HUMAN NUTRITION
MICHIGAN STATE UNIVERSITY

Provide leadership and coordinate extension, research, and public service in Food Science/Technology, Nutrition, Food Safety, and Human Nutrition. Must have a doctorate in food science, nutrition, foods, or related field; administrative potential or past administrative experience; and a record of achievement in research, extension, or teaching in an academic, industrial, or governmental setting. This is a 12-month, full-time, tenure-system appointment at the rank of professor. Applications received after 15 October 1988 will not be considered. Review of applications will be undertaken in mid-November and continued until the position is filled. Send resume and three letters of recommendation to:

Department of Food Science and Human Nutrition
Michigan State University
East Lansing, MI 48824-1224
Telephone: 517-353-9512

MSU is an Affirmative Action/Equal Opportunity Institution.

CTYGENETICS/MOLECULAR GENETICS

The Department of Biology, Hofstra University, invites applications for a tenure-track faculty appointment at the Assistant Professor level. A Ph.D. is required, and postdoctoral experience is preferred. The candidate will be expected to teach courses in the area of molecular genetics, molecular biology, or related biology. The candidate also will be expected to develop an active research program in his/her area of interest. Candidates must demonstrate a commitment to the teaching role, and must possess the credentials of recommendation should be submitted by 31 March 1988 to:

Dr. Carlton J. Phillips, Chairman
Department of Biology, Hofstra University
Hempstead, NY 11550
An Equal Opportunity/Affirmative Action Employer.

DEVELOPMENTAL NEUROGENETICS

Postdoctoral positions available to study spasticity and transgenic mutant gene control of neuronal excitability and synaptic plasticity in developing CNS of the mouse. Major interest in neocortical and hippocampal systems. Strong experience in cellular neurophysiology, immunocytochemistry, or molecular neurogenetics required. Excellent salary and benefits. Send letter of intent, curriculum vitae, and names of two references to:

Dr. Jeffrey L. Noebels, Developmental Neurogenetics Laboratory, Department of Neurology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030

EXECUTIVE DIRECTOR

The United States Arctic Research Commission seeks candidates with a broad knowledge of Arctic research and policy activities to serve as Executive Director. The Executive Director is responsible for implementing the Commission's charge of developing an integrated Arctic research policy and assisting the federal government in establishing a national Arctic research program to implement the policy.

The Executive Director is responsible for all technical, financial, and administrative operations of the Commission. Appointed by and reporting to the Chairman, he/she will be located at and in charge of the Washington, D.C. office of the Commission. The Executive Director also acts as the link of the Commission with federal agencies, congressional committees, relevant committees and boards of the National Academy of Sciences, national and international scientific organizations, etc.

U.S. citizenship is required. Applicants should have demonstrated excellence in scientific and advisory service program management related to scientific research, technology, extensive administrative, supervisory, and financial management experience, be familiar with university and government laboratory operations, and possess excellent written and oral communication skills.

The candidate should have at least 5 years of recent experience with national advisory groups in research and policy. An advanced degree is desirable. Salary is competitive based on qualifications and experience. Applications with curriculum vitae should be submitted by 15 May 1988 to:

Chairman, Arctic Research Commission, Geophysical Institute, University of Alaska, Fairbanks, AK 99775-0800

The Arctic Research Commission is an Equal Opportunity Employer.
RESEARCH SCIENTIST
PHARMACOLOGY

Amgen is a dynamic, growing organization producing human therapeutic products through recombinant DNA technology. Our leadership in the development of Erythropoietin and Granulocyte Colony Stimulating Factor has placed us at the leading edge of the biotechnology industry. Our continued growth has created an immediate opportunity for a Research Scientist in our Pharmacology Group.

Applicants must possess a Ph.D. in Pharmacology or a related discipline with a strong background in whole animal research and experience in one or more of the following areas: inflammation, wound repair, immunopharmacology, hematology and oncology. Proficiency in statistical analysis of data is essential, and postdoctoral training is highly desirable.

Amgen offers a competitive compensation and benefits package, including equity participation, as well as a challenging and stimulating research environment. Our location one hour northwest of Los Angeles offers the best in Southern California living. Qualified applicants should direct a resume and a list of 3 references, in confidence, to:

Recruitment, Dept. #30
AMGEN
1900 Oak Terrace Lane
Thousand Oaks
CA 91320

AMGen
Equal Opportunity Employer

LOOKING FOR A CAREER CHANGE?

Editorial position at Science available for a PhD biochemist or molecular biologist with two or three years of research experience and specific capability in one or more of the following areas: protein structure and function, enzymology, cell biology, or immunology. We are seeking someone with wide general interest in quantitative aspects of the life sciences and publications in the refereed literature. Editors have wide responsibilities in manuscript selection ranging from solicitation to editing for clarity. Previous editorial experience is not required. This is a full-time position in our Washington offices.

Please send resume with cover letter including salary requirements to:

Ms. Carolyn Bell
AAAS
1333 H Street, NW
Washington, DC 20005

EOE

Postdoctoral Scientist

Genentech, Inc., a leader in the field of biotechnology, is currently seeking a Postdoctoral Scientist. In this position, you will be involved in the development of in vitro and in vivo cellular and animal models which can be used to predict the efficacy of protein or peptide immunobiotherapeutics.

Requirements include experience in tissue culture and in the preparation and handling of human blood leukocytes. Experience in the development and use of immunoadsorbs and in animal handling is desirable.

Genentech, Inc. offers an excellent salary and benefits package, coupled with the opportunity to make a significant contribution to our organization. Please send resume to: George Giancilio, Scientist, Genentech, Inc., 460 Point San Bruno Blvd., South San Francisco, CA 94080. An equal opportunity employer.

Genentech, Inc.
Genentech, Inc.
Genentech, Inc.
Genentech, Inc.

Biochemist

Pfizer Central Research has an immediate opening in its Molecular Genetics Department for a Biochemist. You will become part of a multidisciplinary research group involved in developing novel approaches to discover drugs which regulate the immune system.

You should possess a MS or BS in biochemistry, molecular immunology or a related field. You also should have a general background in protein chemistry and biochemistry methodology as well as laboratory experience utilizing modern techniques for the isolation and characterization of proteins and peptides from natural and recombinant sources.

In addition to a stimulating scientific environment, we also offer competitive compensation, benefit package and the opportunity to live in an attractive Connecticut shore community. Please send resume and description of research accomplishments to: Mrs. Lorraine C. Corr, Personnel Associate, Pfizer Central Research, Eastern Point Road, Groton, CT 06340.

Pfizer
An equal opportunity employer
POSITIONS OPEN
DEVELOPMENTAL BIOLOGISTS

Two tenure-eligible assistant professor positions, beginning August 1988, with preferred specialties in reproductive biology are available. Ph.D. required. Candidates should have molecular/cellular orientations and postdoctoral experience. The successful candidates are expected to develop productive research programs and to seek external funding. They will participate in the teaching program at the graduate level. Fertile sex chromosome intolerance and experimental protocols are available for a fourth position. Interested candidates should apply. Submit curriculum vitae, transcripts, statement of research plans, and names of three references to: Dr. George H. Sweet, Department of Biological Sciences, The Wichita State University, Wichita, KS 67208.

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

WORK ENVIRONMENT
DEPARTMENT FACULTY OPPORTUNITIES

Applications are invited for the following tenure-track positions (Contingent upon available positions):

INDUSTRIAL HYGIENIST
Expertise in exposure assessment; interest in public policy is desirable.

EPIDEMIOLOGIST
Expertise in workplace hazardous identification and quantification required. Research experience in health effects of physical-chemical or biomechanical hazards is desirable.

ERGONOMIST
Expertise in the evaluation and control of bio-mechanical hazards required. Research experience in the solution of ergonomic programs in industry is desirable.

The University of Lowell, located in the center of the high-technology corridor northwest of Boston, is one of three public universities in Massachusetts. With a current enrollment of over 15,000, it is one of the foremost professional universities in the Northeast.

Send letter of application, resume and references to: Head, Department of Work Environment, College of Engineering, University of Lowell, Lowell, MA 01854. Telephone: 508-932-6000, extension 3406.

UNIVERSITY OF LOWELL
The University of Lowell is an Equal Opportunity/Affirmative Action Employer, Title IX, 504 Employer.

BOSTON UNIVERSITY
FACULTY AND RESEARCH POSITIONS

In a major 5-year expansion of the Physics Department, 16 faculty and several research positions were created by Boston University in 1985. The physical plant, computation facility and the machine, assembly and electron beam have been upgraded to support the increased research activity. Twelve new faculty members have joined the effort.

The Department now expanding our program in condensed matter. This involves new laboratory and office space, enhanced central facilities and four additional faculty positions. Outstanding condensed matter experimenters and theorists at all levels are invited to apply. Positions are also available in theoretical and experimental particle physics.

The Department has a strong scientific excellence and the promise of quality work in the forefront of research, ability to attract quality graduate students and interact constructively with fellow physicists, and outstanding teaching capabilities in faculty candidates.

Inquiries should be addressed to: Chairman, Physics Department, Boston University, 590 Commonwealth Avenue, Boston, MA 02215. Boston University is an Equal Opportunity/Affirmative Action Institution.

POSITIONS OPEN
DIRECTOR
MARYLAND SEA GRANT COLLEGE

The Maryland Sea Grant College supports a range of research, education, and extension programs throughout the state. The College focuses its research efforts on the Chesapeake Bay, with emphasis on fisheries, environment and education. The Maryland Sea Grant supports projects on all campuses of the University of Maryland and also at The Johns Hopkins University, and other institutions in the region.

The College is seeking a Director of National stature, with background in the sciences, extension, or the law. The new Director will provide leadership for a significant advance in the prestige of the Maryland Sea Grant College. The Director should be well acquainted with Sea Grant programs throughout the nation. Although not a requirement, it is hoped that the Director will apply for an academic appointment at one of the campuses of The University of Maryland.

The position is now open and will be filled as soon as possible. Nominations and applications are encouraged before 30 April 1988, but will be considered until the time of final appointment. Write to: Dr. David S. Sparks, Vice President for Academic Affairs, Graduate Studies, and Research, Chairman Search Committee, The University of Maryland, Adelphi, MD 20783.

The University of Maryland is an Equal Opportunity Employer and actively seeks applications from minority and women candidates.

EXPERIMENTAL GEOCHEMISTRY, GEOLOGY, OR GEOPHYSICS

The Department of Earth and Planetary Sciences, The University of Maryland, College Park invites applications for a FACULTY POSITION in experimental geochemistry, geology, or geophysics. The position is tenure-track at a level commensurate with the applicant's qualifications. The successful candidate should have a broad range of scientific interests and will be expected to develop a vigorous program of graduate teaching and research in his or her field of expertise. Applications should include a complete curriculum vitae, recent reprints, and the names of at least three referees. Send your application to: Professor John M. Ferry, Department of Earth and Planetary Sciences, The Johns Hopkins University, Baltimore, MD 21218. No later than 1 April 1988.

The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are particularly encouraged to apply.

FACULTY POSITION AVAILABLE IN MOLECULAR CELL BIOLOGY

The Division of Life Sciences, The University of Texas at San Antonio invites applications for a tenure-track faculty position at either a junior or senior level in molecular cell biology with interest and experience in recombinant DNA research. Applicants should demonstrate research productivity and substantial ability and interest in teaching. Responsibilities will include teaching, research, and supervision of undergraduate and graduate student research. A Ph.D. is required, and postdoctoral experience desired. Submit curriculum vitae, names of at least three professional references, and representative publications to: Director, Division of Life Sciences, The University of Texas at San Antonio, San Antonio, TX 78285-0662. Applications will be accepted until 1 April 1988, and the review will continue until the position is filled. The University of Texas at San Antonio is an Affirmative Action/Equal Opportunity Employer.

Several newly created FACULTY POSITIONS at the assistant, associate, or full professor levels in the Department of Hematology of the Division of Medicine in the M. D. Anderson Hospital and Tumor Institute, Houston, Texas are available. This department has responsibilities for care of the cancer patient populations of leukemia, lymphoma, and bone marrow transplant patients with extensive facilities and resources for the experimental therapy of these diseases.

Applicants with a strong interest in the study of neoplastic cells at the molecular or cell biological level, bone marrow transplantation, and the treatment of leukemia, and lymphoma should apply to: Albert Deisseroth, M.D., Ph.D., Chairman, Department of Hematology, 1515 Holcombe Boulevard, Box 24, Houston, TX 77030, M. D. Anderson Hospital is an Equal Opportunity Employer.

NOVA PHARMACEUTICAL CORPORATION

Pharmacologist/Endocrinologist

Nova Pharmaceutical Corporation, a leading research & development company in Baltimore, MD, is inviting applications for a scientist with expertise in mitogens and cytokines to participate in a unique drug discovery program. The successful candidate should possess a Ph.D and 0-4 years of postdoctoral experience. Individuals with training in pharmacology, biochemistry, molecular biology, immunology or cell biology are encouraged to apply. Those applicants, however, with a demonstrated understanding of ligand-receptor binding and cell culture are preferred. The position will require supervision of a small group of technical associates. Excellent written and oral communication skills.

Nova Pharmaceutical Corporation offers an excellent compensation and benefits package as well as a challenging work environment. Interested individuals should forward their resume, along with a cover letter detailing specific interest and experience to:


Equal opportunity employer m/f.

DIRECTOR
PHARMACEUTICAL DEVELOPMENT

Nelson Research & Development Company headquartered on the University of California campus in Irvine — adjacent to the medical school — is a small, highly creative research company committed to the discovery and development of new drug products.

Our recent acquisition by the Ethyl Corporation affords us the opportunity to expand our Drug Development activities. As part of this expansion, we have the need for a dynamic individual to head our Pharmaceutical Development Department.

In the short term, your primary responsibility will be to organize and develop a small department to be functionally responsible for meeting the Product Development needs of the Company. Experience with both oral and parenteral dosage forms is essential. In the longer term, your responsibility will be to develop a highly creative research unit within the Department to investigate novel drug delivery systems.

The ideal candidate will hold a Ph.D. degree, and will have a minimum of 5 years experience in the pharmaceutical industry. Excellent oral and written communication skills are obviously essential.

The position offers a rare challenge and unique opportunity for professional growth along with the chance to contribute to the overall success of a growing Company.

Nelson Research offers a professional environment and competitive salary and benefits. Interested candidates may send their resume with salary history to:

Personnel Manager
Nelson Research & Development Company
1001 Health Sciences Rd. West
Irvine, CA 92715

An Equal Opportunity Employer
RESEARCH

SCIENTIST

DRUG METABOLISM

WYETH-AYERST RESEARCH, a subsidiary of Fortune 100 American Home Products Corporation, has two openings for research scientists in its Drug Metabolism Division.

RESEARCH ASSOCIATE

This position requires an experienced investigator to study the metabolism and pharmacokinetics of developmental drugs in laboratory animals and man. The candidate must have a strong background in chromatographic methods of analysis, isolation (from biological samples) and structure elucidation of metabolites, experience in radiometric techniques, and excellent oral and written communication skills. This position requires a Ph.D. in Chemistry or Biochemistry and at least 3 years post-doctoral experience in a relevant drug metabolism field.

SENIOR SCIENTIST

A motivated scientist is needed to study the absorption, distribution, metabolism and excretion of foreign compounds in laboratory animals and man. The candidate should have experience in the development of analytical methods to quantify foreign compounds in biological fluids, the use of animal models to study the metabolic fate of foreign compounds and pharmacokinetic properties. Excellent oral and written communication skills would be an asset. A Ph.D. in Physical or Life Sciences with at least one year post-doctoral experience is required.

Wyeth-Ayerst offers an excellent salary and benefits package with opportunities for career advancement. Interested candidates should submit a resume with salary history to:

Personnel Manager, Dept. MC

Carnegie Mellon University

The Departments of Biological Sciences and Chemistry

invite applications for

Faculty Positions in

X-ray Crystallography

The Departments of Chemistry and Biological Sciences announce their intention to establish a research center in biomolecular structure. Appointees will hold tenure track positions in Biological Sciences and/or Chemistry at the appropriate professorial level. Applications are particularly solicited from individuals with well established research programs focusing upon the use of x-ray crystallography to analyze biological structure and function. An outstanding opportunity exists at Carnegie Mellon to establish a major center for analysis of biological structure. This center will involve three new faculty appointments. Initially we hope to identify a senior faculty member or members who will participate in determining the scientific direction and organization of this center. Curriculum vitae should be sent to:

Search Committee; Biomolecular Structure
Departments of Biological Sciences and Chemistry
Carnegie Mellon University
4400 Fifth Avenue
Pittsburgh, PA 15213

Carnegie Mellon University is an Equal Opportunity/Affirmative Action Employer.

BIOTECHNOLOGY/DIAGNOSTICS

RESEARCH & DEVELOPMENT

At Baxter Healthcare Corporation, Pandex Division, our breakthroughs in innovative immunoassay technology have put us at the forefront of this field while helping drive our substantial rate of growth. Creative and independent Scientists at the Ph.D. MS and BS level are now needed to support our expanding biotechnology efforts in the following areas:

- BIOPROCESSING
- MOLECULAR BIOLOGY
- RETROVIROLOGY/VIROLOGY
- IMMUNOLOGY/IMMUNOChemistry
- ASSAY DEVELOPMENT
- MICROBIOLOGY

At Pandex you’ll find a unique scientific environment supported by the Fortune 75 Baxter, yet within an atmosphere where you’ll play a key and independent project role while being recognized for your contribution. Our organization is located in an attractive suburban area 30 miles north of Chicago and we offer excellent compensation. For confidential consideration, please send resume to: Anne McNicholl, Personnel Director, Baxter Healthcare Corporation, Pandex Division, 909 Orchard Street, Mundelein, IL 60060. Equal Opportunity Employer.

FASEB or ASM Meeting Bound?

Pandex representatives will be in attendance at FASEB in Las Vegas, May 1-5 and at ASM in Miami, May 8-13. Send your resume now to arrange for a possible meeting at either convention.

Pandex

Baxter
**SCIENTISTS**

Several positions are available at Neurogenetic Corporation, Paramus, New Jersey for scientists interested in the molecular biology, cell biology and protein chemistry of the nervous system.

Molecular and cell biologists should have expertise in at least one of the following areas: recombinant DNA technology, expression systems, or cell culture. Protein chemists should have experience in the isolation, purification and characterization of a variety of proteins as well as peptide synthesis.

Neurogenetic Corporation is a privately-held company engaged in the application of genetic engineering to the diagnosis and treatment of neurological disorders. The company was formed in 1987 by a group of leading neurobiologists and has an outstanding Scientific Advisory Board.

Neurogenetic Corporation offers an excellent compensation package and opportunities to contribute to this growing company. All applications will be kept confidential. Applications, including a full curriculum vitae and the names and addresses of three references, should be directed to:

Neurogenetic Corporation  
215 College Road, Paramus, NJ 07652

An Equal Opportunity Employer

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**CANCER IMMUNOBIOLOGY**

The University of Texas Southwestern Medical Center at Dallas has announced a new Cancer Immunobiology Program under the directorship of Dr. Ellen S. Vitetta. The plan is to develop the program into a new Center devoted to research on the immunobiology of cancer, with particular focus on leukemia/lymphoma.

The Program is located in a research complex that also houses the Howard Hughes Medical Institute, several other Centers conducting biomedical research, and an immunotoxin production laboratory to generate material for human clinical trials. The Program has access to central facilities, including common equipment, and animal rooms.

The first individuals are being recruited for September, 1988. Scientists are being sought at the associate or full professor levels to head groups which will interact to develop new approaches to the biology and therapy of lymphoid tumors. Their research will include tumorigenesis, dormancy, effector cells, immunotoxins, immunotoxins and genetically engineered reagents. Such individuals should have strong backgrounds in either cell biology, molecular biology, pharmacology or tumor immunology.

Individual salaries, research space, and start-up funding are provided. Members of the Program may have academic appointments in basic and/or clinical departments and membership in graduate school programs. Investigators will be able to interact with clinicians at Parkland Memorial Hospital and the soon-to-be-completed University Hospital.

Candidates must hold M.D. or Ph.D. degrees (or their equivalents) and must have a record of major research achievement.

Please address inquiries and applications (with Curriculum vitae, references and statements of interests) to:

Dr. Ellen Vitetta  
Cancer Immunobiology  
University of Texas Southwestern Medical Center  
5323 Harry Hines Boulevard  
Dallas, Texas 75235-9048

The University of Texas Southwestern Medical Center at Dallas is an Equal Opportunity/Affirmative Action employer.

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**Science Writer**

Pfizer Central Research has an immediate opening for a Clinical Research Scientist interested in a scientific writing career. Duties include compiling, drafting and editing a wide range of documents for new drug research and registration.

This position requires a person with a science background, broad research experience and strong writing skills. Alternatively, a person with technical writing experience and familiarity with the drug research and development process would be considered.

This position offers an excellent opportunity for professional recognition and a competitive compensation and benefit package. Located in Groton, Connecticut, Pfizer Central Research is in the midst of attractive shore communities, and one hour from New Haven, Hartford, and Providence. Please send resume to: Ms. Leighton K. Gleicher, Personnel Associate, Pfizer Central Research, Eastern Point Road, Groton, CT 06340.

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**BUILDING A NEW LAB?**

LET THE SCIENCE FREE PRODUCT INFORMATION SERVICE PUT YOU IN TOUCH WITH THE VENDORS WHOSE PRODUCTS YOU WILL NEED.

SIMPLY WRITE US A LETTER STATING THE SPECIFICS ABOUT YOUR PROPOSED LAB AND WE WILL DO THE REST.

WRITE TO:

SCIENCE MAGAZINE  
NEW LAB SERVICE DEPT.  
1515 BROADWAY  
NEW YORK, N.Y. 10036
Atherosclerosis Research

Eli Lilly and Company, a research-intensive pharmaceutical company headquartered in Indianapolis, is in search of an accomplished scientist to lead an atherosclerosis research program. This individual will establish a preclinical group of Senior Scientists whose primary mission will be exploratory research and discovery of drugs to treat atherosclerosis and related vascular disorders.

We are searching for a self-motivated, visionary scientist to conceptualize, focus, and organize a drug discovery program in the area of atherosclerosis. Leadership qualities including excellent communication, interpersonal, analytical, and organizational skills are important. The successful candidate will participate in building this drug discovery effort and have an opportunity to recruit new talent. Either a Ph.D. or M.D. degree is required with a minimum of 7 years industrial or academic experience and an in-depth understanding of the mechanisms underlying the atherosclerotic process. An established research record in the area of atherosclerosis and a national scientific reputation are required. The successful candidate’s level of entry and position title will be commensurate with their experience.

Eli Lilly and Company offers a professional environment and an attractive compensation package. For prompt consideration, please forward your curriculum vitae to:

John W. Crooks, Manager, College Relations (ASR)
Eli Lilly and Company,
Lilly Corporate Center
Indianapolis, Indiana 46285

Equal Opportunity Employer
FACULTY POSITION
PERMEABILITY TECHNOLOGIST

The new Center for Food and Industrial Agricultural Product Development at Iowa State University seeks applicants for an assistant or associate professor position in fermentation technology. The incumbent is expected to develop a program of research and training that focuses on the genetics for fermentation and integration of product recovery and develop qualifications for tenure in the Department of Food Science and Human Nutrition. Responsibilities should include design of those of a team of chemists, microbiologists, and engineers focused on developing fermentation technologies to produce industrial and food products. Although the position is primarily research, the individual will share in technology transfer and teaching. A Ph.D. in chemical engineering, food science, microbiology, or related field is required. Industry and academic postdoctoral experience is preferred. Application can be made by sending a resume, list of publications, three references, and a statement of teaching and research interests to: Lawrence A. Johnson, Iowa State University, Department of Food Technology, 102 Dairy Industry Building, Ames, IA 50011. Telephone: 515-294-4636. Deadline is 15 April 1988 or until position is filled.

Iowa State University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS
BIOMEDICAL ENGINEERING

The University of Southern California invites applications for faculty positions available by September 1988. Applicants must have a Ph.D. or an M.D. degree with experience in sensory physiology, biochemistry, or molecular biology. Duties to include teaching and research, appointment will be expected to establish his or her own research program. Rank and salary will be commensurate with qualifications. Send resume and the names of three references to:

H. K. Chang, Chairman
Department of Biomedical Engineering
University of Southern California
P.O. Box 190099-1451
Los Angeles, CA 90019

An Equal Opportunity/Affirmative Action Employer

JUNIOR OR SENIOR POSTDOCTORAL/ RESEARCH ASSOCIATE

Position available 1 April 1988 to study molecular mechanisms controlling genomic activation (see PNAS USA 83, 8231 (1986)). Experience in analyzing chromosomal proteins preferred. Salary commensurate with experience and other fringe benefits. Annual appointment renewable up to 5 years. Have curriculum vitae and three letters of recommendation sent to: Dr. Marie A. DiBerardinis, Department of Physiology and Biochemistry, The Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129.

Equal Opportunity/Affirmative Action Employers.

NEUROBIOLOGY— POSTDOCTORAL ASSOCIATES

Two openings are now available in the laboratory of Dr. Robert O'Connell to study Offactory Neurobiol- ogy. One position seeks to explore olfactory transduction at the membrane level. This research involves biophysical and biochemical approaches to the molecular mechanisms responsible for odorant detection in insect olfactory receptor neurons. Experience with either mem- brane reconstitution, second messenger system biochemistry or standard reconstituting techniques is required. The second position seeks to explore mechanisms of olfactory communication at several levels. The planned research will be an interdisciplinary approach to anatomical, behavioral, chemical, electrophysiological, and hormonal substrates of olfactory communication in several mammalian species. Experience in one or more of these areas is required. Salaries are commensurate with experience. The Worcester Center is situated on a wooded 100-acre campus only a few minutes from the Medical School buildings. The Center is close to Boston, Harvard, and Providence area academic and research institutions. Send curriculum vitae, a statement of past research interests, and the names of at least three references to: Dr. Robert O'Con- nell, c/o Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrews- bury, MA 01545.

An Equal Opportunity/Affirmative Action Employer MITH.

POSITIONS OPEN

IMMUNOLOGISTS

Biotherapeutics Inc., a health care service company, contracts with suitable cancer patients to perform laboratory research studies to develop custom-tailored biotherapeutic options. With expansion plans for a national network of laboratories in the next five years, the company seeks a qualified individual for the following position:

LABORATORY DIRECTOR

Candidate should have a proven track record in re- search, and a D.D.S. or M.D. in head and neck surgery in tumor cell biology or cellular immunology. Administrative and managerial experience is preferred. Specific responsibilities will include planning, developing, and administration of the laboratory and coordination of basic and contract-related research. Qualified candidates should send curriculum vitae and salary history to: Biotherapeutics Inc., Philosophy Department, P.O. Box 1676, Franklin, TN 37065-1676.

INSTRUCTOR OF BIOLOGICAL SCIENCE

CENTRAL OREN COMMUNITY COLLEGE

Successful candidate will teach courses in human anat- omy and physiology, microbiology, and general biology. Qualifications: M.A. or M.S. in zoology or biology, and one year's teaching experience at the secondary level. Salary: $32,000. Must apply with recommendations and/or more information, contact: The Personnel Office, Central Oregon Community College, 2600 NW College Way, Bend, OR 97701. Telephone: 503-385-8515.

Equal Employment Opportunity/Affirmative Action

COGNITIVE SCIENCE UNIVERSITY OF ROCHESTER

The University of Rochester is continuing its search begun several years ago for a full professor of COGNITIVE SCIENCE. Rochester has an active interdisciplinary Cognitive Science group with participating faculty in Arts and Sciences, Chemistry, Computer Science, Engineering, Psychology, Language, Literatures and Linguistics, Psychology, Anatomy, and in the Graduate School of Education. The University has a B.A. program in cognitive science, and is planning to develop a Ph.D. program. Cognitive scientists with distinguished records in any area are encouraged to apply.

Application materials should be sent to: Professor Michael K. Tanenhaus, Department of Psychology, University of Rochester, River Station, Rochester, NY 14627. The position is available as an Equal Opportunity/Affirmative Action and Equal Opportunity Employer. We encourage applications from minority group members, women, and from the handicapped.

MOLECULAR BIOLOGIST

Molecular biologist in the instructor or assistant pro- fessor level needed to joint program project team. Candi- dates should have the M.D. or Ph.D. degree, expertise in human genetics and a background in aging research. Tissue culture experience with skin derived cells desir- able. Curriculum vitae and three letters of reference to: Dr. B. Gilchrist, Department of Dermatology, Bos- ton University School of Medicine, 80 East Concord Street, Boston, MA 02118.

MOLECULAR PLANT PHYSIOLOGIST

Tenure-track faculty position in plant physiology available to complement existing programs in molecular and developmental genetics. Individuals studying the molec- ular basis of hormone action in higher plants are encouraged to apply. Applicants should have postdoctoral experience and demonstrated potential to establish a competitive research program that is both novel and complementary to the graduate and undergraduate courses. A commitment to excellence in teaching is required. To assure full consider- ation, application materials should include a statement of research goals, a curriculum vitae and three letters of recommendation by 4 August 1988 to: Dr. Glenn Todd, Department of Botany and Microbi- ology, Oklahoma State University, Stillwater, OK 74074. The position is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR VIROLOGIST

Tenure-track as- sistant professor position available after 1 July 1988. Candidates should have research interests in virology at molecular and cellular levels. A Ph.D. in virology and a commitment to teaching and research is required. The University has a departmental teaching effort and participation in a joint Ph.D. graduate program with the School of Medicine. Strongly encourage applications by minority faculty members. Send curriculum vitae and the names and addresses of three references to: Dr. Teh- huang Chiu, Department of Microbiology-Biochemis- try, School of Dental Medicine, University of Pitts- burgh, Pittsburgh, PA 15261. Closing date for position is 1 April 1988. The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.

MAGNETIC RESONANCE SPECTROSCOPIST

McLean Hospital Neurodiagnostic Imaging Center is looking for a research magnetic resonance spectroscopist with postdoctoral level experience in vivo animal and/ or human spectroscopy, particularly involving the central nervous system. This staff-level position includes a Har- vard Medical School joint appointment with the collaborative association with the research spectroscopy group at the Massachusetts General Hospital. The McLean facility has a 1.5T Siemens superconducting whole body scanner, the primary research focus of the faculty is the study of brain- behavior relationships through correlation of function with localization. Applicants are strongly encouraged by 7 April 1988. Inquiries should be directed to: Dr. Bryan T. Woods, Director, Department of Neu- rology, McLean Hospital, 115 Mill Street, Belmont, MA 02178. An Equal Opportunity Employer.
Applications should possess a veterinary degree plus an advanced degree in pathology and demonstrated capabilities in toxicologic or experimental pathology. ACVP certification is preferred.

Names include the design, conduct, and interpretation of toxicity studies of pharmaceutical candidates. The successful candidate should have a strong research and diagnostic background and will be expected to investigate the pathogenesis of selected lesions encountered in toxicology studies. Candidates should be able to work independently and as a part of a team. Collaboration with colleagues in drug discovery is encouraged. Excellent organizational and communication skills are required for these positions.

We offer an excellent salary and benefits package for this position, including a company car and generous relocation where appropriate. Our laboratories are well equipped with modern instrumentation and are situated in a country estate of 37 acres in rural Hertfordshire, just north of London.


Leaders in pharmaceutical research and development worldwide
NEUROSCIENTIST
The Biology Department at San Diego State University invites applications for a tenure-track faculty position, assistant or associate professor level. Individual with research emphasis in neuroscience withSuccessfully demonstrate expertise in transcriptionalactivation of HIV genes. The position requires a Ph.D.in molecular biology or related field and significantresearch experience with the ability to obtain independent funding. Salary and academic rank are commensurate with qualifications and experience. Please send curriculum vitae, one page letter describing research projects and a description of future research plans, and names of three references to:

John W. Warren, M.D.
Department of Medicine
University of Maryland School of Medicine
10 South Pine Street
Baltimore, MD 21201
An Equal Opportunity/Affirmative Action Employer.

PHYSIOLOGIST
Biology Department
UNIVERSITY OF MICHIGAN
MUNCIE, INDIANA
Assistant or associate professor, a tenured-track position in the Department of Physiology and Health Science, available fall 1988. Duties include teaching graduate and undergraduate courses, conducting research in molecular biology with involvement in basic human anatomy, supervision of master's candidates, and development of a funded research program in special area. Requires Ph.D. in physiology or closely related field; postdoctorate and college teaching experience are preferred. Salary and rank will be commensurate with experience. Submit curriculum vitae, list of publications, and names of three recent earned degree, three current letters of recommendation, and statement of research interests to: Dr. Charles B. Carroll, Acting Chairperson, Department of Physiology and Health Science, Ball State University, Muncie, IN 47306. Applications will be evaluated commencing 30 March 1988, but position is open until filled.

Ball State University Practises Equal Opportunity in Education and Employment.

POSTDOCTORAL FELLOW—Position available 1 July 1988 for a Ph.D. interested in vascular smooth muscle (VSM) function and regulation. Research is in the area of vascular biology, targeted to study regulation of second messengers in VSM, and the role of protein kinases in VSM function and regulation. The interested candidate should have experience with VSM or other Ca2+-dependent in vitro systems utilizing cellular and/or molecular levels. Send curriculum vitae including a summary of research interests and the names of three references to: Dr. R. Weissman, Cardiovascular Research, (26-12) Geisinger Clinic, Danville, PA 17822.

POSTDOCTORAL POSITION
A postdoctoral position is available immediately to study microtubule-associated motility factors and other microtubule-associated proteins. Projects involve molecular cloning of microtubule-associated proteins from brain tissue and sea urchin egg; and molecular, biochemical and immunological analysis of proteins involved in fast axoplasmic transport and mitosis. Send curriculum vitae and three letters of recommendation to: Dr. Richard Vallee, Principal Scientist, Co-Director of the Cancer Center, Co-Principal of Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545.

An Equal Opportunity/Affirmative Action Employer M/F/H.

POSTDOCTORAL POSITION available immediately to study structure and regulation of expression of neurotoxindamaged tumor antigens during development and neoplasia. Experience with recombinant DNA, cell fractionation and screening of cDNA libraries. Send curriculum vitae and names of three references to: Dr. Ralph A. DeWeese, Assistant Professor, Department of Surgery, Scripps Clinic and Research Foundation, 10066 North Torrey Pines Road, La Jolla, CA 92037.

POSTDOCTORAL POSITION available immediately to study vascular smooth muscle regulation of vascular smooth muscle function. Send curriculum vitae and names of three references to: Brian P. Nichols, Laboratory for Cell, Molecular, and Developmental Biology, Department of Developmental Biology, University of California, Irvine, CA 92717.

POSTDOCTORAL POSITION available immediately to study the mechanisms of sulfonamide resistance (including gene amplification) and/or biochemistry and genetics of folate biosynthesis in E. coli. Send curriculum vitae and names of three references to: Dr. Robert C. Carroll, Department of Pathology, University of Cincinnati Medical School, 550 First Street, New York, NY 10016.

POSTDOCTORAL POSITION available immediately for research on the mechanisms of sulfonamide resistance (including gene amplification) and/or biochemistry and genetics of folate biosynthesis in E. coli. Send curriculum vitae and names of three references to: Dr. Robert Carroll, Department of Pathology, University of Cincinnati Medical School, 550 First Street, New York, NY 10016.

POSTDOCTORAL POSITION in developmental neurobiology of the taste system for one or more years. The position is open to interest in taste receptor fields and microorgan- ization with central taste nuclei are studied in single cell neurophysiology, neuron labeling and reconstruction techniques in fetal and postnatal rats. Experience with microiontophoresis, single neuron reconstruction, neuroanatomy of developing nervous system, and/or immunocytochemistry is desirable. Salary and rank will be commensurate with experience. Send letter of research interests, curriculum vitae, and names of three references to: Dr. C. M. Mistaire, Department of Biological and Materials Sciences, School of Dentistry, University of Michigan, Ann Arbor, MI 48109. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Postdoctoral position available immediately for studies of growth regulation of breast cancer by hormones and other growth factors. Successful projects include the importance of autocrine growth factors in growth regulation, and growth factor and oncogene expression in the development of estrogen independence. Biochemical, molecular, and genetic approaches will be used in these studies. A Ph.D. and a strong background in common cell biology are desirable. Salary commensurate with experience. Send curriculum vitae and three references to: Dr. C. Kent Osborne, Department of Medicine, University of Texas Health Science Center at Houston, Houston, TX 77025. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study gene expression and signal transduction in Saccharomyces. Genetic, molecular, and biochemical approaches will be used to characterize the induction and repression of the yeast GAL gene. Send curriculum vitae and names and addresses of three references to: Dr. Robert West, Department of Biochemistry and Molecular Biology, SUNY Health Science Center, Syracuse, NY 13210. Telephone: 315-473-5156.

POSTDOCTORAL POSITION available immediately in cellular and molecular immunology to study mechanisms underlying uptake and processing of antigens and their application in vaccine development. Previous experience in cellular immunology or protein chemistry desirable. Send curriculum vitae and three references to: Dr. J. Gabriel Michael, Department of Microbiology and Molecular Genetics, University of Cincinnati Medical Center, M.L. #624, Cincinnati, OH 45267.

POSTDOCTORAL POSITIONS available 1 July 1988 for two geneticists. Appointments are available for two postdoctoral positions in genetic analysis of the human genome. Experience in the use in cell in culture and/or yeast genetic approaches is required. The successful candidates are expected to be able to work independently, be fluent in English, involve students and the wonders of a 4-year institution located in a coastal environment. Send curriculum vitae, names and addresses of three references, and the names of three references to: Chair, Department of Biology, USC-Coastal Car-olina College, P.O. Box 1954, Conway, SC 29526. Telephone: 803-345-5150. Screening of applications will begin on 1 March 1988. USC Coastal Carolina College is an Equal Opportunity/Affirmative Action Employer.

PLANT PHYSIOLOGIST
Tenure-track assistant professor in biology beginning in August 1988. Applicants should have a Ph.D. in the biological sciences and demonstrated effectiveness in teaching at the undergraduate and graduate level. Responsibilities include teaching introductory biology courses, and developing upper level courses in plant physiology, and in either plant ecology and/or microbiology. The successful candidate is expected to establish and maintain an active research program involving undergraduates and graduate students and the resources of a 4-year institution located in a coastal environment. Send curriculum vitae, names and addresses of three references, and curriculum vitae and names of three references by 23 March 1988 to: Chair, Department of Biology, USC-Coastal Carolina College, P.O. Box 1954, Conway, SC 29526. Telephone: 803-345-5150. Screening of applications will begin on 1 March 1988. USC Coastal Carolina College is an Equal Opportunity/Affirmative Action Employer.
SAFETY OFFICER

Howard Hughes Medical Institute

Howard Hughes Medical Institute invites nominations and applications for the position of Safety Officer. This is a new position and presents an unusual opportunity for the development and maintenance of a comprehensive program for monitoring safety and environmental health within the research laboratories operated by HHMI.

The Institute is one of the leading medical research organizations, at present conducting biomedical research in laboratories located in 29 academic medical centers and universities throughout the United States.

Reporting to the Vice President and Chief Scientific Officer, and working closely with Safety Officers at each of the host academic institutions, the principal responsibilities of the Safety Officer will be:

- To establish appropriate safety standards for all HHMI laboratories and to monitor that they are being effectively followed. Among the safety issues to be addressed are the handling of biohazardous materials, radiation safety, animal welfare and the processing of hazardous waste.
- To keep abreast of and to ensure compliance with all relevant Federal and State regulations.
- To develop and implement a safety training program for HHMI laboratory personnel.
- To act as liaison with host institutions with respect to safety issues.
- To advise senior management in the development of a total laboratory risk management program.

Preferred qualifications include:

- An earned doctorate in medicine or science.
- Certification in safety, industrial health or equivalent.
- At least five years of appropriate experience, including significant experience in biological or biomedical research, preferably in an academic environment.
- Good communication and interpersonal skills. An ability to interact with research scientists and with administrative and scientific personnel.

Applications or nominations (with complete resumes) should be sent by May 15, 1988 to:

Director-Human Resources
Howard Hughes Medical Institute
6701 Rockledge Drive
Bethesda, MD 20817

HHMI is an Equal Opportunity Employer.

Cell Biology Research BS/MS

The Upjohn Company, a leader in research and development of pharmaceuticals, is seeking Research Associates at the BS or MS degree levels for our Cell Biology Research Group. Degrees in Biochemistry, Cell Biology, Microbiology, Immunology or related area with solid academic achievement are highly desirable. Several years of relevant research experiences and demonstrated skills in experimental design and state-of-the-art analysis are needed.

PROTEIN BIOCHEMIST: Incumbent will assist a scientist in a basic research lab exploring the mechanisms of membrane protein transport to the cell surface using a cell-free, reconstituted transport system. Position will provide an opportunity for independent work and exploring new technologies. Background and laboratory experience with general biochemical procedures, protein purification and routine tissue culture techniques are necessary.

IMMUNOLOGIST: This person will work independently on production and characterization of monoclonal antibodies to small molecules, proteins and cell surface antigens. Job responsibilities include: immunizations, fusion, screening of fusion products, cloning, ascites production, assay development (RIA, ELISA, fluorescense, Western blotting), and characterization of monoclonal antibodies produced. Investigations will include development of new methodologies for immunization and screening.

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 confidential consideration, please call from outside of Michigan toll free 1-800-253-8600, ext. 3-6767, (inside Michigan call collect 616-323-6767) to request an employment application be sent to you immediately. Please refer to advertisement number 1748-A when calling. We are an Equal Opportunity Employer M/F.

Our Commitment to Scientific Excellence Continues...
VIROLOGY, IMMUNOLOGY, VACCINE DEVELOPMENT POSTDOCTORAL POSITIONS

Chiron Corporation, a recognized leader in the biotechnology industry, has several postdoctoral positions available in the areas of virology, immunology and vaccine development. Successful candidates will join an ongoing research program for viral vaccine development including a study of the natural host immune response, identification and production of key viral antigens and the role of adjuvants and other immunomodulators in vaccination.

These positions offer an excellent opportunity for professional growth and recognition. Publication of important findings will be encouraged. We offer a competitive compensation and benefit package and the opportunity to live in an attractive Bay Area community.

Send curriculum vitae and two names of references to the Human Resources Dept. Code 2, Chiron Corporation, 4560 Horton Street, Emeryville, CA 94608.

CLINICAL RESEARCH ASSOCIATES

Nelson Research & Development Company head-quartered on the University of California campus in Irvine — adjacent to the medical school — is a small, highly creative research company committed to the discovery and development of new drugs.

Our recent acquisition by the Ethyl Corporation affords us the opportunity to expand our Drug Development activities. As part of this expansion, we have the need for dynamic individuals to serve as Clinical Research Associates.

Reporting to the Director of Clinical Research, you will be responsible for all phases of clinical studies including study design, writing protocols and monitoring studies, preparing final study reports for inclusion in IND and NDA submissions.

The ideal candidate will have a B.S. or higher degree in Biological Sciences and a minimum of 2 years related experience in the pharmaceutical industry. Excellent oral and written communication skills are obviously essential.

The position offers a unique opportunity for professional growth along with the chance to contribute to the overall success of a growing Company. Nelson Research offers a professional environment and competitive salary and benefits. Interested candidates may send their resume with salary history to:

Personnel Manager
Nelson Research & Development Company
1001 Health Sciences Rd. West
Irvine, CA 92715

An Equal Opportunity Employer
NATIONAL INSTITUTES OF HEALTH
PUBLIC HEALTH SERVICE
POSTDOCTORAL OPPORTUNITIES FOR AIDS RESEARCH AT NIH

Postdoctoral positions are available to carry out research at the campus of the National Institutes of Health in Bethesda, Maryland on the development of a targeted anti viral agent for the treatment of AIDS. These positions are part of a new cooperative effort to utilize the techniques of structural biology, molecular biology, enzymology, and organic chemistry, to develop an agent based on structural and mechanistic considerations that will interfere with the AIDS virus (HIV) life cycle. Inquiries should be directed to the scientists listed below at the National Institutes of Health, Bethesda, Maryland, 20892. Positions are available for:

- **Structural biologist** to investigate HIV components by high resolution electron microscopy and image processing (write to Dr. Alasdair Steven, NIAMS, Building 6, Room 114; Tel: 301-496-0131.)
- **Molecular biologist or biochemist** to work on expression, purification, and site directed mutagenesis of CD4 (T4) protein, the HIV receptor (write to R. Daniel Camerini-Otero, NIDDK, Building 10, Room 9D-15; Tel: 301-496-2710).
- **Molecular biologist** to study tat-I and tat-III interactions with cellular factors and regulation of HIV gene transcription (write to Dr. Teh Jeang or Dr. John Brady, NCI, Building 41, Room B-307; Tel: 301-496-0987).
- **Molecular biologist** with strong background in recombinant DNA technology and some experience in protein biochemistry to perform structure-function studies on the HIV pol gene (write to Dr. Judith G. Levin, NICHD, Building 8, Room 305; Tel: 301-496-5538).
- **Molecular biologist** to analyze trans-acting gene regulation mediated by the HIV tat gene and its interaction with other viral and cellular genes (write to Dr. Barrie J. Carter, NIDDK, Building 8, Room 304; Tel: 301-496-0604).
- **Molecular biologist** to work on the molecular mechanisms of trans-activation in cells infected with human retroviruses, especially HIV (write to Dr. Alan N. Schechter, NIDDK, Building 10, Room 9N307; Tel: 301-496-5408).
- **Molecular biologist** with background in recombinant DNA technology and nucleic acid sequencing to perform molecular characterization of HIV protease mutants and primate lentiviruses closely related to HIV-2 (write to Dr. Raouf E. Benveniste, NCI, Building 580, Room 21-78, Frederick, MD 21701-1013; Tel: 301-889-5547).
- **Molecular biologist** to carry out cloning and expression of HIV genes and site-directed mutagenesis (write to Dr. Carol J. Marcus-Sekura, FDA, Building 29A, Room 3B05; Tel: 301-496-2696).
- **Molecular biologist** to create and characterize transgenic mice expressing HIV gene constructs (write to Dr. Heiner Westphal, NICHD, Building 6, Room 338; Tel: 301-496-1855).
- **Cellular immunologist or molecular biologist** to study the interactions of the CD4 receptor on T cells with HIV envelope protein and MHC class II antigens (write to Dr. Hana Golding, NCI, Building 10, Room 4B17; Tel: 301-498-9211).
- **Biochemist** with experience in protein kinase and phosphorylation analyses and HPLC purification techniques to investigate the role of protein phosphorylation in viral replication, and to develop inhibitors of the phosphorylation process (write to Dr. Robert I. Glazer, NCI, Building 37, Room 5D02; Tel: 301-496-3268).
- **Biochemist or Immunologist** to investigate the "targeting" of monoclonal antibodies and/or lipid vesicles to HIV-infected cells (write to Dr. John N. Weinstein, NCI, Building 10, Room 4B-56; Tel: 301-496-9571).
- **Biochemist** to study the mechanisms of HIV reverse transcriptase using molecular biological and physical biochemical approaches (write to Dr. Samuel H. Wilson, NCI, Building 37, Room 4D25; Tel: 301-496-2745).
- **Protein chemist or biochemist** to study regulatory proteins binding to the HIV LTR (write to Dr. Lothar Henninghausen, NIDDK, Building 10, Room 9N113; Tel: 301-496-2716).
- **Protein chemist** to isolate, purify, and crystallize HIV proteins for X-ray crystallographic investigations (write to Dr. David R. Davies, NIDDK, Building 2, Room 316; Tel: 301-496-4295).
- **Theoretical biophysicist** to apply a new statistical mechanical algorithm (HAL) for analyzing protein structure-function relations of the HIV envelope protein (write to Dr. John N. Weinstein, NCI, Building 10, Room 4B-56; Tel: 301-496-9571).
- **Theoretical chemist** to investigate structure-function relations in HIV proteins using molecular modelling and simulation methods (write to Dr. Bernard R. Brooks, DCRT, Building 12A, Room 2057; Tel: 301-496-0148).

NIH IS AN EQUAL OPPORTUNITY EMPLOYER
POSTDOCTORAL POSITION
MOLECULAR ENDOCRINOLOGY
To study hormonal control of gene expression in the mammalian reproductive system. Training in reproductive endocrinology or experience with molecular biology techniques desirable. Candidates should send a complete curriculum vitae and names of three references to: Dr. Kelly E. Mayo, Department of Biochemistry, Molecular Biology and Cell Biology, North- western University, Evanston, IL 60208.

POSTDOCTORAL POSITION
available to study tropomyosin gene expression and function in muscle and nonmuscle tissues, including studies on structure, regulation of tissue-specific RNA splicing and expression and function of tropomyosin in normal and transformed cells. Send curriculum vitae and names of references to: Dr. David M. Helfman, Cold Spring Harbor Laboratory, P.O. Box 100, Cold Spring Harbor, NY 11724.

POSTDOCTORAL POSITIONS
Postdoctoral positions available to carry out research on the influence of diet on carcinogenesis, including studies of vitamin D, fats, polyunsaturated and saturated fatty acids, and alcohol. Successful candidates will include graduate students or postdoctoral associates. Send curriculum vitae and names of three references to: Dr. David M. Helfman, Cold Spring Harbor Laboratory, P.O. Box 100, Cold Spring Harbor, NY 11724.

POSTDOCTORAL POSITION
available to study tropomyosin gene expression and function in muscle and nonmuscle tissues, including studies on structure, regulation of tissue-specific RNA splicing and expression and function of tropomyosin in normal and transformed cells. Send curriculum vitae and names of references to: Dr. David M. Helfman, Cold Spring Harbor Laboratory, P.O. Box 100, Cold Spring Harbor, NY 11724.

POSTDOCTORAL POSITIONS
POSTDOCTORAL RESEARCH ASSOCIATE
An opportunity exists for a Research Associate knowledgeable in the application of clinical diagnosis and undertakes research involving the development of immunoassay diagnostic assays. Strong background in analytical chemistry and immunology is essential. Experience of hospital diagnostic biochemistry and cell culture表面 antigens are given to Canad us applicants and both males and females are invited to apply. Salary range: $25,100 per annum.

POSTDOCTORAL/RESEARCH ASSOCIATES.
Applications available for NIH-funded research on the development of computational models and/or statistical models of molecular interactions. Research requires the application of standard molecular biology techniques. Salary range: $22,000 to $25,000 per year, depending on previous experience and title. Submit curriculum vitae, references, and names of three references to: Box 40, SCIENCE.

POSTDOCTORAL RESEARCH FELLOW
Ph.D. or M.D. to pursue a variety of topics related to cellular and molecular aspects of blood cell function. Salary commensurate with experience. Send curriculum vitae and names of three references to: Dr. John Browne, Institute of Biological Chemistry, Washington State University, Pullman, WA 99164-6340. Phone: 509-335-2393.

POSTDOCTORAL RESEARCH ASSOCIATE
Position available at the University of Washington, Seattle. The Department of Cell and Developmental Biology is seeking a research associate to work as part of a group investigating the role of the actin cytoskeleton in cell motility and adhesion. Applicants should have a Ph.D. or M.D. and experience in molecular and cell biology techniques. Salary range: $25,000 to $30,000 per year. Send curriculum vitae and names of three references to: Dr. John Browne, Institute of Biological Chemistry, Washington State University, Pullman, WA 99164-6340. Phone: 509-335-2393.

POSTDOCTORAL POSITION
Molecular Biology
Applications are invited for a postdoctoral position in the laboratory of Dr. J. Michael Thompson, Department of Pathology, University of Virginia, Charlottesville. The position is open to recent Ph.D. or M.D./Ph.D. graduates. The position is available immediately, with an initial appointment for one year, but renewable for a total of up to three years. Salary: $25,000 to $30,000, depending on experience and qualifications. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Molecular Biology
Applications are invited for a postdoctoral position in the laboratory of Dr. J. Michael Thompson, Department of Pathology, University of Virginia, Charlottesville. The position is open to recent Ph.D. or M.D./Ph.D. graduates. The position is available immediately, with an initial appointment for one year, but renewable for a total of up to three years. Salary: $25,000 to $30,000, depending on experience and qualifications. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

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POSTDOCTORAL RESEARCHER
Department of Chemistry, Full-time, federal funds, to begin on or after 1 January 1988. Continuation dependent upon availability of funds. Duties: Isolate, identify, culture, and prepare Campylobacter jejuni; Optimize toxin production; and use the C. jejuni for the isolation of toxins. Minimum qualifications: Ph.D. in physiology or equivalent, with research experience in isolation, identification, and cultivation of bacteria. Salary range: $20,000 to $25,000. Submit letter of application, curriculum vitae, and names of three references to: Dr. Michael J. McInerney, Search Committee, Department of Chemistry, University of Virginia, Charlottesville, VA 22901. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE
Seeking a candidate with at least 7 years of postdoctoral experience and a strong record of scientific achievement, to develop an independent research program within the University of Virginia, School of Medicine, Department of Molecular Biology. Salary range: $25,000 to $30,000 per year. Experience in molecular biology, immunology, biochemistry, genetics, and cell biology is desirable. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE—ASSOCIATE PROFESSOR
Department of Medicine: To perform scientific research in molecular genetogenesis of cancer cells. To direct the laboratory of molecular biology of the Section of Hematology/Oncology, Department of Medicine. To teach graduate students and clinical fellows. Research work involves analysis of polytene chromosomes and use of in situ hybridization technique. Must lead independent scientific research groups involving minimum of six professional staff in several related projects, and collaborate with other medical school faculty. Fourty hours per week, $30 to $50,00 per year. Must have Ph.D. or M.D. in medicine or genetics—cell biology, and 4 years of experience in the offered position or 4 years of experience as research biologist or postdoctoral fellow. Required experience must have involved the use of advanced approaches and technology, recombinant DNA research, such as gene cloning and mapping, including cloning in lambda phages, restriction enzyme analysis, DNA sequencing and DNA or RNA blotting methods. Must have published at least 20 research papers in refereed scientific journals. Send résumés to: Office of Employment Security, 401 South State Street, 3-South, Chicago 60605, Attention: R. S. Petron, Ref. No. V-IL-7530-F. An employer paid ad.
Genentech, Inc., a leader in the field of biotechnology, has the following opportunities available at our South San Francisco headquarters.

**Scientist**

**Protein Purification & Characterization**

We are seeking a highly motivated and innovative Scientist with experience in the purification and characterization of proteins. This Scientist will join a multidisciplinary team of biochemists and biochemical engineers developing methods to purify and characterize recombinant proteins to be used as human pharmaceuticals. The individual will focus on rapid protein purification and characterization in conjunction with research.

The successful candidate will have a PhD in Biochemistry with at least 2 years' postgraduate experience in either academia or industry with a demonstrated record of accomplishment. Knowledge of HPLC, FPLC, affinity and other protein purification/analysis techniques is essential.

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Research

**Assistant/Associate**

We are also seeking a Research Assistant/Associate to work on cDNA cloning and the expression/functional analysis of polypeptides. You will also be involved in membrane signal transduction. This opportunity requires a BS/MS in Molecular Biology, Cell Biology or equivalent with at least 2 years' experience in molecular cloning techniques. Cell culture experience is desirable.

Genentech, Inc. offers an excellent salary and benefits package coupled with the opportunity to make a significant contribution to our organization. For the Scientist position, please send resume to: Joyce Goulden, Human Resources Dept. 0642, Genentech, Inc., 460 Point San Bruno Blvd., South San Francisco, CA 94080. For the Assistant/Associate position, please send resume to Eric Mankuta, Human Resources Dept. 1413 at the same address. An equal opportunity employer.

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POSTDOCTORAL/RESEARCH ASSOCIATE POSITION

Available Fall 1988 to participate in quantitative neuroanatomical studies of the hippocampal formation that are designed to generate data for computer simulation of hippocampal neural networks. Applicant should have some familiarity with intracellular electrophysiological techniques, the in vitro hippocampal slice preparation and neuronal tract tracing methods. Send vita, summary of research interests and experiences and names of three references to:

David G. Amaral
The Salk Institute
P.O. Box 85800
San Diego, CA 92138

Equal Opportunity Employer M/F/H/V
RADIATION BIOLOGIST/ CANCER BIOLOGIST

The Department of Radiation Medicine at Massachu-
setts General Hospital is seeking a full-time laboratory
scientist for a program devoted to the application of a
molecular biology approach to the study of the mecha-
nisms of radiation damage. The successful candidate
will be expected to develop an independent research
program focused on one or more of the following
areas:

1. Molecular biology of radiation damage.
2. Radiation biology of cellular and tissue injury.

Candidates with a Ph.D. or M.D. degree and a strong
background in molecular biology and radiation biol-
ogy are encouraged to apply. Send curriculum vitae
and three letters of recommendation to:

Mr. R. E. Epp, Department of Radiation Medicine,
Massachusetts General Hospital, Boston, MA 02114.

Massachusetts General Hospital/Harvard University
are Equal Opportunity/Affirmative Action Employers.

RESEARCH ASSOCIATE—Department of Psy-
chiatry, Emory University School of Medicine. Can-
didates must have Ph.D. in biological or chemical
sciences, and extensive laboratory experience in the
development and performance of radioimmunoassay
and high pressure liquid chromatography with electro-
chemical detection. Substantial experience with
radioimmunoassay and radioimmunoassay substrate,
neuromodulator metabolites, hormones and peptides
from plasma, cerebrospinal fluid and urine. This labora-
tory supports a multi-investigator clinical research un-
its focusing on the study of major psychiatric illnesses
including depression, schizophrenia, and panic disorders.

Please send curriculum vitae and list of three references
to: The University, Emory University, Depart-
ment of Psychiatry, P.O. Box AF, Atlanta, GA

MICHIGAN STATE UNIVERSITY
EAST LANSING, MICHIGAN
RESEARCH ASSOCIATE
ENVIRONMENTAL CARCINOGENESIS—
MUTAGENESIS

Two positions are available for individuals with
a strong background in molecular biology, biochem-
istry, or microbiology to investigate the molecular and
cellular mechanisms of carcinogen- and mutagen-
ated transduction of diploid human cells. The multi-
disciplinary approaches used include: transfection of
oncogenes into human cells and characterization of their
effects; mutagenesis of shuttle vectors replicating in
human cells that differ in DNA repair capacity; sequence
analysis of the types of genetic changes induced in
endothelial genes of human cells; and induction and
analysis of human cell homologous recombination.

Send application, curriculum vitae, reprints, and three
dates of letters of recommendation to:

Dr. J. R. McCormick and Dr. V. M. Maher,
Professors of Departments of Biochemistry
and Microbiology,
B-260 West Fee Hall/Genetechs Laboratory
Michigan State University
East Lansing, MI 48824–1316

Michigan State University is an Affirmative Action/Equal
Opportunity Institution.

RESEARCH ASSOCIATE, PENN STATE—Position
available immediately for a molecular biologist with a
Ph.D. in molecular biology, with experience in bio-
chemistry, molecular biology or related areas. Gene
disruption expertise is essential and experience with
DNA transfection techniques is an advantage. The
candidate will work in the Laboratory of Molecular
Genetics, a multi-disciplinary research group that is
working on several projects related to the physiology
of mammalian cells. The successful candidate will
work closely with the laboratory director on ongoing
and future projects. Send curriculum vitae, copies of
three publications, and a statement of research inter-
ests to:

Dr. E. J. DeWitt, Department of Biology,
Pennsylvania State University,
University Park, PA 16802.

Pennsylvania State University/Bio Medical
and Molecular Biology/Genetic Engineering
are Equal Opportunity/Affirmative Action Employers.

RESEARCH ASSOCIATE, PENN STATE—Position
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Pennsylvania State University/Bio Medical
and Molecular Biology/Genetic Engineering
are Equal Opportunity/Affirmative Action Employers.

SCIENTISTS
BIOMOLECULAR CHEMISTRY

Positions are available in the Department of Bio-
chemical Chemistry for a protein crystallographer and
a molecular biologist. Candidates will be working within
a multi-disciplinary group using the protein engi-
neering approach to design and study proteins with
altered properties and structure, and mimicking ligand-
receptor interactions with rationally designed small mol-
eles. Applicants for the molecular modeling position
may have interests in research problems related to either
macromolecular structure or small molecule drug design.
Candidates should have Ph.D. and at least 2 years of postdoctoral experience in a research area
related to structural biology. Applications should send current vitae, copies of publications, and a state-
ment of research interests to:

Dr. Anthony Kossiakoff, Department of Bio-
molecular Chemistry, Genentech, Inc., 460 Point San
Bruno Boulevard, South San Francisco, CA 94080.

Genentech, Inc.

VASCULAR CELL BIOLOGY. The Department of
Medicine, The University of Texas Southwestern
Medical School, is seeking a full-time faculty mem-
ber in the area of vascular biology. The successful
applicant will have a Ph.D. in molecular biology or a
related field and a strong background in vascular bio-
chemistry. The successful candidate will be expected
to develop an independent research program in the
area of vascular biology, and to publish extensively
in peer-reviewed journals. Interested individuals
are encouraged to submit a letter of interest, a curricu-
Cum vitae, and names of three references to:

Dr. R. H. Granger, Department of Biochemistry
University of Texas Southwestern Medical School
Dallas, TX 75235.

The University of Texas Southwestern Medical
School is an Affirmative Action/Equal Opportunity
Employer.

The American Cancer Society invites applications for
the position of Biostatistician in the Division of Cancer
Research. The successful candidate will be responsible
for statistical analysis of data generated in the Cancer
Research Institute and will have responsibilities
corresponding to the major areas of cancer research
and treatment. Send letter of interest to:

Biostatistics and Biometry Department
American Cancer Society
Sidney Kimmel Cancer Center
Philadelphia, PA 19104.

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Affirmative Action Employer.

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American Cancer Society
Sidney Kimmel Cancer Center
Philadelphia, PA 19104.

The American Cancer Society is an Equal Opportunity/
Affirmative Action Employer.
BIOTECH AT ITS BEST

Integrated Genetics, Inc., a recognized leader in biotechnology, develops therapeutic and diagnostic products for the health-care industry. Our continued success leads to these new opportunities.

RESEARCH MANAGER

Lead work on Hemopoietic Growth Factors from conception through scale-up. Includes supervision of cloning and assay groups, overseeing production and purification of clinical-grade material, and overall contract management. Requires a PhD and 7 yrs postdoctoral experience in molecular or cellular biology preferably with emphasis on cloning and characterization of growth factors. Strong management skills essential. Industrial experience preferred.

STAFF SCIENTIST

Coordinate and perform on/off-site testing of new therapeutic drugs including toxicology studies for FDA approval. Requires a PhD in Pharmacology, Biopharmaceutics, or Pharmacokinetics and at least 2 yrs experience in pharmacokinetics of peptide/protein molecules, coagulation and/or thrombosis animal model systems, and toxicology studies necessary for human clinical trials.

STAFF SCIENTIST

Join a team responsible for investigating and evaluating new product opportunities for IG. Will require close interaction with scientific staff, research and evaluation of publications, and attendance at scientific meetings with follow-up on contacts. A PhD in science and a broad understanding of the science and business of biotechnology is required. Superior communication and interpersonal skills are essential.

Integrated Genetics is located in an attractive suburban area 25 miles west of Boston. We offer an excellent compensation and benefits package, including three weeks' vacation and equity participation.

For immediate consideration, please send your resume to:
David Nicksa
Dept. 3311
Integrated Genetics, Inc.
31 New York Avenue
Framingham, MA 01701.

An equal opportunity employer

POSTDOCTORAL FELLOW
PCR-DNA Amplification

Cetus, a frontrunner in Biotechnology is seeking applications for a Postdoctoral Fellowship to study the structure and function of thermostable DNA Polymerases.

This person's efforts will be directed toward improved understanding of the Polymerase Chain Reaction (PCR) in vitro DNA amplification technique and to extending the applications for thermostable DNA Polymerases. Responsibilities include detailed characterization of kinetic properties, such as extension rate processivity, displacement synthesis and fidelity. The successful applicant will have the opportunity to collaborate with the highly motivated Cetus PCR group.

We require a Ph.D. in Biochemistry or Molecular Biology and up to 3 years' directly relevant experience in nucleic acid enzymology. Preference will be given to highly creative, exceptionally productive scientists with experience studying kinetic properties of DNA polymerase(s) and with fidelity assays. Experience with antibody-affinity chromatography would be an asset. Excellent written communication skills are essential.

This position will be a 2 year appointment and may be extended to 3 years by mutual agreement. Please send C.V. to:

Cetus Corporation
Box DGPD
1400 53rd Street
Emeryville, CA 94608.

We are an equal opportunity/affirmative action employer.

APPLIED BIO TECHNOLOGY

Staff Scientist, Protein Chemistry

Applied bioTechnology is a growing company specializing in:
* genetically engineered vaccines for the veterinary and human markets
* novel products for cancer diagnostics and therapeutics based on oncoengineer technology.

An immediate opening exists for a highly motivated individual in our Protein Chemistry/Immunology Group. As a member of our vaccine development team, the qualified applicant will coordinate the analysis and characterization of proteins expressed by a variety of recombinant DNA techniques. This individual will also contribute to the design of purification schemes for a variety of antigens and antibodies to be used in the analysis of oncoengineer products and the development of cancer diagnostics. The successful candidate should have a Ph.D. in Biochemistry, with post-doctoral training. Strong organizational and communication skills required.

Please submit your resume or curriculum vitae to:

Applied bioTechnology, Inc.
80 Rogers Street
Cambridge, MA 02142

An Equal Opportunity Employer MFH/Nav

INTEGRATED GENETICS

Cetus®

POSTDOC ORAL FELLOW

PCR-DNA Amplification

Cetus, a frontrunner in Biotechnology is seeking applications for a Postdoctoral Fellowship to study the structure and function of thermostable DNA Polymerases.

This person's efforts will be directed toward improved understanding of the Polymerase Chain Reaction (PCR) in vitro DNA amplification technique and to extending the applications for thermostable DNA Polymerases. Responsibilities include detailed characterization of kinetic properties, such as extension rate processivity, displacement synthesis and fidelity. The successful applicant will have the opportunity to collaborate with the highly motivated Cetus PCR group.

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Box DGPD
1400 53rd Street
Emeryville, CA 94608.

We are an equal opportunity/affirmative action employer.

APPLIED BIO TECHNOLOGY

Staff Scientist, Protein Chemistry

Applied bioTechnology is a growing company specializing in:
* genetically engineered vaccines for the veterinary and human markets
* novel products for cancer diagnostics and therapeutics based on oncoengineer technology.

An immediate opening exists for a highly motivated individual in our Protein Chemistry/Immunology Group. As a member of our vaccine development team, the qualified applicant will coordinate the analysis and characterization of proteins expressed by a variety of recombinant DNA techniques. This individual will also contribute to the design of purification schemes for a variety of antigens and antibodies to be used in the analysis of oncoengineer products and the development of cancer diagnostics. The successful candidate should have a Ph.D. in Biochemistry, with post-doctoral training. Strong organizational and communication skills required.

Please submit your resume or curriculum vitae to:

Applied bioTechnology, Inc.
80 Rogers Street
Cambridge, MA 02142

An Equal Opportunity Employer MFH/Nav
The new Center for Pharmaceutical Technology at the School of Pharmacy, University of Missouri-Kansas City is seeking two Senior Research Associates, one experienced in pharmaceutical tablet and capsule production and the other in quality control. The possibility exists for appointment as an instructor in the school opportunity for graduate study. The positions are ideal for industrial scientists, including people who have accepted early retirement, seeking a university appointment in an attractive urban area. Salary and title are negotiable. Please send a letter, vitae, and a list of references to: Lester Chafetz, Ph.D. Professor of Pharmacy and Director, Center for Pharmaceutical Technology, University of Missouri-Kansas City Kansas City, MO 64110-2499

University of Missouri-Kansas City an equal opportunity institution

SENIOR SCIENTISTS - MOLECULAR BIOLOGY

THE LISTER HILL NATIONAL CENTER FOR BIOMEDICAL COMMUNICATIONS, the research division of the National Library of Medicine located at the National Institutes of Health in Bethesda, Maryland, is seeking qualified individuals for a Senior Scientist position in its Biotechnology Information program. The candidate is expected to establish and conduct a research program in molecular biology computing which may include, but is not limited to, prediction of structural or biological function from sequence data, comparative analyses of physical and genetic maps, pattern recognition in sequence data, or evolution of gene sequences. Computing facilities include twenty Sun workstations and servers, DEC Vax 11/780s, IBM mainframes, a network link to a Cray S-MP at the National Cancer Institute, and direct Arpanet access. Programming staff support is also available.

Applicants must have a Ph.D. in molecular biology or a related field and a publication record in the above research areas. Appointment is for a one- to two-year period, extendable to four years. Salary range is $40,000 to $65,000 depending upon experience.

Send curriculum vitae and the names of three references to:

Dennis Benson, Ph.D.
Lister Hill National Center for Biomedical Communications
National Library of Medicine
National Institutes of Health, Public Health Service
8600 Rockville Pike, Bethesda, MD 20894

For further information call:
Ms. Yvonne Reid (301) 496-4441

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

Research Assistants

Genentech, Inc., a leader in the field of biotechnology, has two opportunities within our research group. The successful candidates will assist in the development and performance of RIA's, ELISA's and radio receptor assays in support of ongoing research projects. Once developed, assays will be run routinely and will require maintenance and problem solving.

The ideal candidates will have an MS in Biology or Microbiology and 4 years' experience with mitogen assays, RIA's, ELISA's and radio receptor assays including related techniques, i.e. radio iodination, gel chromatography, affinity chromatography, enzyme conjugation and tissue culture. Familiarity with computer programming is also required.

Genentech, Inc. offers an excellent salary and benefits package coupled with the opportunity to make a significant contribution to our organization. Please send resume with three references to: Eric W.W. Mankuta, Genentech, Inc., 60 Point San Bruno Blvd., South San Francisco, CA 94080. An equal opportunity employer.

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Excellent opportunities exist for innovative researchers in our Clinical R&D Department. We are currently seeking highly knowledgeable and experienced professionals for the following key positions:

SENIOR CHEMIST - Toxicology

Requires Ph.D. in Biochemistry, Immunology, Clinical Chemistry or related fields. One to three years industrial experience in research and development of non-toxic procedures for the assay of therapeutic drugs is essential. Supervisory experience and prior experience with assay procedures for drugs of abuse would be helpful.

SENIOR CHEMIST - Special Chemistry

Candidate should have Ph.D. in Biochemistry or related field. One to three years commercial experience in development of diagnostic products in one or more of the following areas is preferred: Tumor markers, Coagulation and Hormone tests, or isoenzyme assays. We can provide a competitive salary and a full company-paid benefits package. Send your confidential resume and salary history to:

Diagnostic Positions SIGMA CHEMICAL COMPANY P.O. Box 14508 St. Louis, MO 63178
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SIGMA DIAGNOSTICS

The new Center for Pharmaceutical Technology at the School of Pharmacy, University of Missouri-Kansas City is seeking two Senior Research Associates, one experienced in pharmaceutical tablet and capsule production and the other in quality control. The possibility exists for appointment as an instructor in the school with opportunity for graduate study. The positions are ideal for industrial scientists, including people who have accepted early retirement, seeking a university appointment in an attractive urban area. Salary and title are negotiable. Please send a letter, vitae, and a list of references to: Lester Chafetz, Ph.D. Professor of Pharmacy and Director, Center for Pharmaceutical Technology, University of Missouri-Kansas City Kansas City, MO 64110-2499

University of Missouri-Kansas City an equal opportunity institution

SENIOR SCIENTISTS - MOLECULAR BIOLOGY

THE LISTER HILL NATIONAL CENTER FOR BIOMEDICAL COMMUNICATIONS, the research division of the National Library of Medicine located at the National Institutes of Health in Bethesda, Maryland, is seeking qualified individuals for a Senior Scientist position in its Biotechnology Information program. The candidate is expected to establish and conduct a research program in molecular biology computing which may include, but is not limited to, prediction of structural or biological function from sequence data, comparative analyses of physical and genetic maps, pattern recognition in sequence data, or evolution of gene sequences. Computing facilities include twenty Sun workstations and servers, DEC Vax 11/780s, IBM mainframes, a network link to a Cray S-MP at the National Cancer Institute, and direct Arpanet access. Programming staff support is also available.

Applicants must have a Ph.D. in molecular biology or a related field and a publication record in the above research areas. Appointment is for a one- to two-year period, extendable to four years. Salary range is $40,000 to $65,000 depending upon experience.

Send curriculum vitae and the names of three references to:

Dennis Benson, Ph.D.
Lister Hill National Center for Biomedical Communications
National Library of Medicine
National Institutes of Health, Public Health Service
8600 Rockville Pike, Bethesda, MD 20894

For further information call:
Ms. Yvonne Reid (301) 496-4441

NIH IS AN EQUAL OPPORTUNITY EMPLOYER
Invitron Corporation, a leading Biotechnology Company focused on the production of biopharmaceuticals, has the following openings in its Redwood City Research facility:

**Scientist—Protein Biochemistry**
PhD with experience in peptide chemistry and protein characterization, especially with regard to peptide synthesis, sequencing and covalent modification. Please send responses to AD #60-1.

**Scientist—Cell Biology**
PhD in analytical or biological chemistry and experience in the development of clinical or biological assays. To establish an analytical group, responsible for developing immunological/biochemical assays including ELISA, RIA, FIA, etc., as well as assays to determine amino acids, carbohydrates and other factors in biological media. Please respond to AD #62-1.

**Scientist—Molecular Biology**
PhD in molecular biology with 2 years’ postdoctoral experience. Expertise in mammalian cell culture, eukaryotic gene regulation, and recombinant DNA techniques is essential. Successful candidate will lead an active research group in gene expression. Please respond to AD #64-1.

**Scientist—Molecular Biology**
PhD in molecular biology. Expertise in nucleic acid chemistry preferred. Qualified individuals are expected to direct our oligonucleotide synthesis and DNA sequencing efforts in molecular genetics group. Please respond to AD #64-2.

**Research Associate/Assistant—Protein Biochemistry**
BS/MS degree, 1-2 years’ experience in several of the following areas: protein purification using LC, HPLC, and FPLC; peptide mapping and reverse phase techniques; amino acid analysis; peptide synthesis. Please respond to AD #60-2.

**Research Assistant—Molecular Biology**
BS/MS in biology, chemistry or related degree, expertise in mammalian cell culture, gel-electrophoresis, cDNA cloning, and/or DNA sequencing. Please respond to AD #64-3.

Invitron offers competitive salaries and full benefits with excellent potential for growth according to ability. Please forward resumes to:

J. Bliss
INVITRON CORPORATION
301 Fenobscot Drive
Redwood City, CA 94063

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**Myocardial Ischemia and Thrombosis Research**

The LILLY RESEARCH LABORATORIES, a division of Eli Lilly and Company, is emphasizing its commitment to cardiovascular medicine. This has resulted in the following career opportunities for senior personnel to provide leadership roles in myocardial ischemia and thrombosis research programs. Applicants must be accomplished doctoral level scientists with a minimum of 5 years industrial or academic experience, an interest in drug discovery, and an established research program and publication record.

For thrombosis, we are particularly interested in a scientist with experience studying the biochemical, pharmacological, and physiological interactions between vascular endothelial cells and platelets. Expertise in cell culture, platelet aggregation, mediator release, and the effects of intercellular mediators on endothelial cell function would also be desirable.

Individuals applying for the myocardial ischemia position will ideally have an indepth knowledge of the molecular mechanisms underlying ischemic damage to myocardium and the role of formed blood elements in the ischemic process. An understanding of cardiovascular hemodynamics is also important.

Successful candidates will be responsible for providing scientific leadership to these important areas of research. Broadly based scientific experience and good communication and organizational skills will be essential. The successful candidate’s level of entry and position title will be commensurate with their experience.

Eli Lilly and Company offers a professional environment and an attractive compensation package. For prompt consideration, please forward your curriculum vitae to:

John W. Crooks, Manager, College Relations (M/IR)
Eli Lilly and Company, Lilly Corporate Center
Indianapolis, Indiana 46285

Equal Opportunity Employer
TWO TENURE-TRACK POSITIONS: (1) Neuropharmacology, research interest in language, memory or consciousness; (2) Taxonomy, preference for molecular systematics. Both positions offer competitive salaries, NIH funding, and opportunities for professional travel and collaboration. Candidates should have a Ph.D. in neuroscience or a related field and have a strong publication record. Applications including a curriculum vitae, statement of research interests, and three letters of recommendation should be submitted by 1 May 1988. Inquiries and applications should be directed to: Prof. J. M. Smith, Department of Neurobiology, University of California, Berkeley, CA 94720.

Academic searches #532-533 University of Texas at Dallas P.O. Box 830088 Richardson, TX 75083-0688

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

VICE CHAIRMAN FOR BASIC SCIENCE RESEARCH

Children's Hospital Medical Center of Cincinnati, Ohio, an institution with a faculty of 131 M.D.'s and 33 Ph.D.'s, is searching for an individual to fill the position of Vice-Chairman for Basic Science Research. Children's Hospital Medical Center and Children's Hospital Research Foundation function as the Department of Pediatrics of the University of Cincinnati College of Medicine through a contractual agreement with the University. The Institution is a private, not-for-profit, endowed organization with a strong past and present history in research and education. The individual for whom we search should be a scientist at the forefront of molecular biology research, with a M.D. or a M.D.-Ph.D. degree. The person should command excellent grant support in his present position and quality of leadership. Responsibilities of the position are to maintain and develop the Division of Basic Science Research, which has a faculty of 20 Ph.D.'s, 12 Ph.D. research fellows, and 22 graduate students devoted to research, molecular genetics, and, to a lesser extent, teratology. The individual will have responsibility for increasing the excellence in molecular biology presently on-going, for controlling budgets, for space allocations of the investigators in the Division, and will act under the Chairman of the Department of Pediatrics as a leader of research in the Institution.

Applications should be made in writing by submitting curriculum vitae to: William K. Schubert, M.D., Chairman, Department of Pediatrics and President, Children's Hospital Medical Center, Elland and Beethoven Avenues, Cincinnati, OH 45229-2899.

VISITING SCIENTIST/ENGINEER THE INSTITUTE OF PAPER CHEMISTRY (IPC)

IPC invites scientists and engineers to participate in its Visiting Program in research and graduate student work with research programs as follows:

ENGINEERING: Papermaking Processes; Heat and Mass Transfers; Unit Operations; Combination and Transport Processes; Process Control and Simulation; Corrosion.

CHEMISTRY: Cellulose and Lignin; Photochemical Reactions in Paper and Fibers; Structure of Woody Tissue; Delignification and Bleaching Processes; Molten Salt Processes.

PHYSICS: Optical Properties of Paper; Mechanical Properties of Paper and Board; Elastic and Viscoelastic Properties of Fibrous Composites; Sensor Development.

FOREST BIOLOGY: Embryogenesis and Organogenesis of Forest Trees; Plant Physiological and Developmental Biology.

Post-doctoral appointments are also available. Submit curriculum vitae and references to: Personnel, The Institute of Paper Chemistry, Box 1039, Appleton, WI 54912-1039.

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ZOOLOGY ASSISTANT PROFESSOR, tenure-track, starting September 1988. Salary range $28,000 to $31,080. Instruct undergraduate zoology and biology courses. Ph.D. in zoology or related field required. Application letter, curriculum vitae, official transcripts of all college work, and three letters of recommendation should be submitted by April 15, 1988, to: C. Leslie Carpenter, Assistant Dean, The Ohio State University at Marion, 1465 Mt. Vernon Avenue, Marion, OH 43302-5695. An Equal Opportunity/Affirmative Action Employer.

CONFERENCE


COURSE

PENN STATE BIOTECHNOLOGY INSTITUTE HYBRIDOMA AND MONOCLONAL ANTIBODIES

A 4-day workshop will provide researchers with both practical and theoretical background on hybridoma and monoclonal antibody production. The course will emphasize lab exercise starting with immunization, and covering all aspects through ascites production. Offered 16 to 19 May 1988. Limited to 20 participants. Cost: $600. Contact: Dr. Richard Arets, 519 Biotechnology Institute, University Park, PA 16802. Telephone: 814-865-0921.

SYMPOSIUM

TROPICAL DISEASES SYMPOSIUM MEHARRY MEDICAL COLLEGE NASHVILLE, TENNESSEE 26 APRIL 1988

Meharry Medical College, School of Graduate Studies, Division of Biomedical Sciences, will hold its Fifth Annual Tropical Disease Symposium entitled "Recent Advances in the Immunology and Biochemistry of Tropical Diseases" on Tuesday, 26 April 1988. The Symposium will consider, for example, the role of the host response in disease susceptibility and resistance. The course will cover the latest advances in the understanding of the biology and epidemiology of tropical diseases and their control. For further information, please contact: Dr. John M. Schubert, Department of Pathology, Meharry Medical College, Nashville, TN 37208. Telephone: 615-327-6193. This workshop is supported by an NIH training grant with predoctoral and postdoctoral positions available.

FELLOWSHIPS

GRADUATE FELLOWSHIP—Competitive fellowship is available particularly to Black American citizens to work toward an M.S. in plant science at the University of Delaware. Research areas involve plant-mycorrhizal interactions and plant tissue culture. A yearly stipend of $7,785 with full tuition waiver is available. Student will devote full time to study. For further information, contact: Dr. Sherry Kito or Dr. Carol Janerette, Department of Plant Science, University of Delaware, Newark, DE 19717. Telephone: 302-851-2525. The University of Delaware is an Affirmative Action/Equal Opportunity Employer.

PREDOCTORAL FELLOWSHIPS are available for studies leading to the Ph.D. in the Physiology Graduate Program in the Temple University School of Medicine. Stipends and tuition waivers are available for eligible candidates. Specific research topic areas include cell biology of normal and diseased myocardium, membrane receptors, developing cardiopulmonary physiology, blood-ventilator interaction, pulmonary mechanics, and cerebrospinal fluid. Applications may be sent to: Steven E. Houser, Ph.D., Physiology Graduate Program, Temple University School of Medicine, 3420 N. Broad Street, Philadelphia, PA 19140. Equal Opportunity Employer, M/F.

FELLOWSHIPS

HARVARD SCHOOL OF PUBLIC HEALTH INTERDISCIPLINARY PROGRAMS IN HEALTH POSTDOCTORAL FELLOWSHIPS

The Program in Environmental Health and Public Policy invites applications from promising graduates of advanced degree programs in the natural or social sciences. The program focuses on basic and analytical foundations for environmental decisions. In addition to conducting individual research, fellows are encouraged to collaborate with each other and faculty members on projects of mutual interest. A group project might consider, for example, the effect of scientific uncertainties on environmental decisions.

Fellows will be appointed for a term of 1 year, starting September 1988. Awards may be renewed. Application deadline: 15 April 1988. Decisions announced in May.

For information, write to: Professor Donald F. Hornig Harvard School of Public Health 665 Huntington Avenue Boston, MA 02115 Telephone: 617-732-1258

POSTDOCTORAL FELLOWSHIP

Two-year postdoctoral fellowship available immediately at The Miriam Hospital for a person interested in cell and molecular biology. New graduates considered.

Position will involve coordinating and expediting a research project to identify and clone the gene for human megakaryocyte colony-stimulating factor in collaboration with a major bio-engineering company in the Boston area. Person should be able to supervise and direct personnel as well as conduct laboratory experiments. Tissue culture and molecular biology experience desirable. Send curriculum vitae along with three letters of reference to: Dr. Eric M. Mazur, Director of the Division of Hematology/Oncology, The Miriam Hospital, 164 Summit Avenue, Providence, RI 02906. Equal Opportunity Employer.

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