POSITIONS WANTED


Molecular Immunologist, Ph.D. (1986). Three years of postdoctoral research experience. Research experience in cloning, sequencing, transgenic mice, and computer searches. Seek a position in an academic or industrial laboratory, also open to other possible positions in the area of molecular biology. Box 141, SCIENCE.


POSITIONS OPEN

ACADEMIC POSITION—CALIFORNIA. University of California, San Francisco School of Dentistry seeks applicants for a tenure-track position in the Division of Periodontology at the associate or assistant professor level. Applicants must have a dental degree (D.D.S., D.M.D., or equivalent) and a certificate of advanced training in periodontology. A Ph.D. in either oral biology, microbiology, or immunology is desirable, but not required. Applicants should be strong oral biology and periodontology at the undergraduate and graduate levels (30%) and research (50%-70%). Intraoral murs, 9-12 lectures, in addition to routine research and teaching. Salary open to negotiation. Deadline is 1 March 1989. UC SF is an Equal Opportunity/Affirmative Action Employer. Males and females are encouraged to apply. Send curriculum vitae and three letters of recommendation to: Dr. D. A. N. Jones, Assistant Professor, Department of Periodontology, U.C.S.F., San Francisco, San Francisco School of Dentistry, San Francisco, CA 94143-0650.

ASSISTANT PROFESSOR: Applications are invited for a position at the assistant professor level. The applicant should have a strong background in the area of molecular biology and be capable of performing some clinical activity in either area. The Department is seeking candidates with special experience in areas such as (i) neurobiology and neurogenetics, (ii) developmental biology, and (iii) structure and function of cell membranes. The department is expanding, with expectation of new faculty, building, and resources. Applications from women and minority individuals are especially encouraged. Submit curriculum vitae, a brief description of research plans, reprints, and letters of reference submitted by three referees to: Chair, Molecular Cell Biology Search Committee, Department of Biology, University of California, Santa Barbara, Santa Barbara, CA 93106 by no later than 1 December 1988. Preference given to applications received by 1 November 1988. The University of California is an Equal Opportunity/Affirmative Action Employer. Males and females are encouraged to apply. Women and minorities are especially encouraged to apply. Subsequent deadlines may be expected. Submit curriculum vitae, a brief description of research plans, reprints, and letters of reference submitted by three referees to: Chair, Population Genetics Search Committee, Department of Biology, University of California, Santa Barbara, Santa Barbara, CA 93106. Preference given to applications received by 1 December 1988. The University of California is an Equal Opportunity/Affirmative Action Employer. Males and females are encouraged to apply. Women and minorities are especially encouraged to apply.
POSITIONS OPEN

ASSISTANT PROFESSOR—TENURE-TRACK

MOLGEN BIOLOGIST

A faculty position will be available in 1989 for a cu- ckatory molecular biologist with an independent re- search program. Ongoing research initiatives in the anatomy department are in neural, reproductive, muscle, and developmental biology. Teaching is in the medical and graduate curricula but prior training or teaching experience in anatomical disciplines is not required. Please send résumé, a statement of research interests, and three letters of recommenda- tion to: Ludwig Sternberger, M.D., Search Commit- tee, Department of Anatomy, University of Maryland School of Medicine, 1020 N. Catskill Street, Balti- more, MD 21201. For additional information tele- phone: Dr. Ludwig Sternberger, 301-328-2203 or Dr. Loyd Guth, 301-328-5390. The University of Maryland is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR

Virology

The Department of Biology, University of South Florida, seeks a tenure-track position in virology. The position is at the level of assistant professor and is broadly defined for a virologist working in animal, microbe, or plant virology. A person with expertise in contemporary areas of virology, such as viral assembly, genetics, or pathogenesis, is sought to complement an active research group in the Department with research programs in cell/molecular biology, micro- biology, physiology, and ecology. The successful can- didate would be expected to establish an externally-funded research program, to teach at the undergraduate and graduate levels, and to teach virology. Submit curricu- lum vitae, reprints of publications, statement of research interests and three letters of recommenda- tion before October 1988 to: Dr. Daniel V. Lim, Virologist Search Committee, Department of Biolo- gy, University of South Florida, Tampa, FL 33620. USF is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSORS.

The Biology Depart- ment of Rutgers University—Camden is seeking three outstanding biologists for 10-month tenure-track positions beginning 1 September 1989. The successful applic- ants will have the potential of being awarded Henry Rutgers Research Fellowships which allow for a 50% reduction in teaching and research support for the initial 2 years of the appointment. A Ph.D. is required and postdoctoral experience expected. Teaching responsibilities include participation in undergraduate and graduate courses in the applicants’ area of training and research. ESTUARINE BIOLOGIST/ICHTHYOLOGIST—While we are looking for a strong field orientation from any area of estuarine biology, we are particularly interested in work on the fish ecology ofSystem. Applicants with strong microbiological orientation are being sought; however, those with expertise in immunology would be preferred.

NEUROSCIENTIST/ELECTRON MICROSCO- PIST: We are seeking quality applicants for any area of neuroscience, especially those demonstrating expertise in electron microscopy. Applicants should submit curriculum vitae, statement of research interests, and three letters of recommendation before 30 September 1988 to: Dr. H. Lee, Chairman, Biology Department, Rutgers University, Camden, NJ 08102. Rutgers, The State University of New Jersey, is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT RESEARCH PHYSIOLOGIST (Department of Medicine). Ph.D. in physiology or relat- ed field required. Experience required in respiratory and cardiovascular measurements and analysis in large animals (i.e., oxygen delivery to peripheral tissues, isolated in situ gymnastics preparation in dog and rat, oxygen dissociation curves, oxygen consump- tion, metabolic rate, and acid-base status). Familiarity with analysis of peripheral oxygen exchange). Salary related to established schedule of University of California, San Diego. Reply by 30 September 1989 to: Dr. John B. West, Department of Medicine, Division of Pulmonary Physiology M-023A, University of California Medical Center, 3333 La Jolla, CA 92039-0623. Afirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR OF PHARMACOLOGY

Mercer University School of Medicine wishes to fill a tenure-track position in pharmacology immediately. Applicants must possess a Ph.D. and/or M.D. with postdoc- toral training. Preference will be given to candidates with recent experience in clinical pharmacology. However, others are also encouraged to apply. The successful candidate will be expected to develop a research program. Submit curriculum vitae, statement of research interests, and three letters of reference to: Dr. Robert Moon, Chairman, Division of Basic Medical Sciences, Mercer University School of Med- icine, Macon, GA 31207. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSORS—TENURE-TRACK

The University of Medicine and Dentistry of New Jersey—NMS seeks tenure-track, assistant professors to develop an active, independent and productive research program and to obtain extramural support. Teaching responsibilities include participation in dental courses and the departmental graduate program. Prefer- able areas of research interests are: Membrane and cell/molecular biology and biophysics, and endothelial and epithelial cell biology. Qualifications: Ph.D., M.D., or equivalent degree, and a minimum of 2 years of postdoc- toral experience. Salary: $35,000-$40,000.

Send a copy of your curriculum vitae, statement of research accomplishments and future goals, and the names of three references to: Chairperson, Department of Physiology, University of Medicine and Dentistry of New Jersey—New Jersey Medical School, 185 South Orange Avenue, Newark, NJ 07103-2757. The UMDNJ is an Equal Opportunity/Affirmative Action Employer. M/F/H/V.

ASSISTANT/ASSOCIATE PROFESSOR

PHYSIOLOGY AND BIOPHYSICS

UNIVERSITY OF WASHINGTON

A tenure-track position open for outstanding candi- dates working in the molecular, cellular and/or integra- tive areas of physiology or biophysics. Applicants are expected to apply modern methods to study of the auto- nomic nervous system (including development and signal transduction) or to the cardiovascular system and its integrated function. Particularly well qualified candidates are encouraged. Candidates are expected to develop a strong independent research program and to teach effectively at the graduate level. Submit curriculum vitae, statement of research interests and goals, and names and addresses of three references to: Wollhard Almers, Chair of Search Committee, Physiology and Biophysics, S1-40, Uni- versity of Washington School of Medicine, Seattle, WA 98195. The application deadline has been extended to 31 October 1988. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE/ASSOCIATE PROFESSOR

Cell Biology and Anatomy

University of California-Los Angeles, University of Health Sciences/University of the Chicago Medical School, has two tenure-track faculty positions available at the assistant/associate professor level. Applicants should have a strong commitment to a research program. Preference will be given to candidates whose research complements existing programs in membrane transport, intracellular acid-base transport, signal transduction, cytoskeleton, extracellular matrix, neurobiology and molecular neurobiology. The can- didate will also be expected to teach in histology, neurosci- ence or anatomy. Send a letter of interest and a curricu- lum vitae and statement of research plan to: David McCandless, Ph.D., Department of Cell Biology and Anatomy, University of Health Sciences/University of the Chicago Medical School, 3353 Green Bay Road, North Chica- go, IL 60604.


ASSOCIATE RESEARCH SCIENTIST position available immediately to participate in optical recording of neuron activity from rat cortex and molluscan ganglia. The candidate must have a Ph.D. in neurobiology. Previous programming experience with VERSADOS is preferred. Knowledge of computer literacy and electronics would be helpful. Salary and benefits compet- itive. Send curriculum vitae and the names of three references to: Dr. Lawrence B. Cohen, Department of Cellular and Molecular Physi- ology, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510.

Yale University is an Equal Opportunity/Affirmative Action Employer.
POSITIONS OPEN
ASSOCIATE/FULL PROFESSOR
A full-time, tenure-track position will begin in the fall of 1989 with the potential to become chairperson. Primary responsibility involves teaching undergraduate and graduate courses and laboratories in introductory biology and upper level electives in their specialty. A research program involving undergraduate research experience is expected to be supported. The Ph.D. and proven research is required as well as previous teaching experience. Please submit curriculum vitae and three letters of recommendation by 1 November 1988 to:
Chairman, Biology Search Committee
Canisius College
2001 Main Street
Buffalo, NY 14208
Canisius College is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE RESEARCH SCIENTIST/ SCHOLAR or STAFF ASSOCIATE position imme-
 diately available in the Orthopaedic Research Laboratory (ORL) at the Presbyterian Medical Center, 1374-500 Templeton Drive, Pittsburgh, PA. The Ph.D. is required. The applicant is a Ph.D. in biomechanics or biomedical engineering, or M.S. with 2 years of experience. Emphasis is placed on soft tissue biomechanics and orthopaedic research. Responsibilities include: manager for material testing sec-
tion of ORL, supervision of experimental research for graduate students and resident research fellows, and independent or interdisciplinary collaborative project development. Highly competitive starting salary commensurate with experience. Please contact and send curriculum vitae to: Van C. Mow, Ph.D., Director, Orthopaedic Research Laboratory, Columbia—Presbyterian Medical Center, 630 West 168th Street, New York, NY 10032. Telephone: 212-305-1515.

BIOCHEMISTRY—UCLA: The Department of Chemistry and Biochemistry has a TENURE-TRACK OPENING in biochemistry. The position probably will be filled at the assistant professor level, but applications for a more senior position may also be considered. We are seeking a candidate who will establish a strong and innovative research program in chemistry and/or molec-
ular biology. Teaching responsibilities will include undergraduate general biochemistry and participation in graduate courses appropriate to the appointee's interests. Candidates must have a Ph.D. and a postdoctoral research experience. Applications should be submitted with a curriculum vitae and research plan, and should include three letters of recommendation sent to: Dr. C. A. West, Department of Chemistry and Biochemistry, University of Cali-
ifornia, Los Angeles, CA 90024 by 1 November 1988. The University of California is an Equal Opportunity/Affirmative Action Employer, and encourages applications from women and minority candidates.

DEPARTMENT OF BIOLOGY
THE JOHNS HOPKINS UNIVERSITY
The Department of Biology invites nominations and applications for the position of CHAIRMAN of the Department. Qualifications: Ph.D. or equivalent. The candidate should be a well-established investigator with demonstrated leadership and administrative experience. The Department of Biology offers a broad program of undergraduate, graduate and postgraduate study in the Biological Sciences including: Biochemistry and biophysical chemistry, cell biology, developmental biology and genetics. Applications should be postmarked not later than 15 December 1988. Résumé to:
Dr. William F. Harrington
Chairman, Search Committee
The Johns Hopkins University
Baltimore, MD 21218
The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN
CELL BIOLOGIST: ProCyte Corporation, a Seat-
tale-area biotechnology firm dedicated to the research and development of wound healing products, is seeking a Ph.D. in cell biology, histopathology, or related fields, 3 to 5 years of postdoctoral experience. We offer challenging work in an exciting field and excellent benefits for significant contributors. Please send curricu-
lim vitae and letter of interest to: ProCyte Corpora-
tion, Attention: Scientific Director, 2893 152nd Ave-
ue, NE, Redmond, WA 98052. An Equal Opportunity Employer.

CHAIR—NEW DEPARTMENT OF GEOSCIENCES
UNIVERSITY OF CALIFORNIA, IRVINE
The University of California at Irvine (UCI) invites applications for the position of Founding Chair of the planned Department of Geosciences. This position is the first of a number of new faculty appointments included in a long range commitment to develop a new depart-
ment on this campus. The level of the appointment will be in the full professorial ranks and the salary will depend upon the qualifications of the candidate and based upon the U.C. pay scale. Candidates must have demonstrated excellence in their specialization of research. Administr-
ative experience is not required but is desired since the candidate will have to build the department and challenge of building a new department in the U.C. system.

The Department is envisaged to focus on the more quantitative aspects of earth and space sciences and will specialize in global studies. It will ultimately include a spectrum of fields with an emphasis on the effects of changes in the global environment with an eye toward the need to be in areas such as atmospheric modeling, meteorology and climatic changes, global dynamics, geophysics, and geo-
chemistry. Future expansion of the department will be into the basic sciences and engineering, and possibly in the edge of external funding sources and procedures as demonstrated by management of a significant funded research program. Preferred: Have administrative experi-
ence in the department level or in an academic institution offering Ph.D. programs in the sciences. Send curriculum vitae or write for detailed information: Reid C. Miller, Dean of Engineering and Architecture, Washington State University, Pullman, WA 99164-2714. Ap-
pli-
cations due before 1 November 1988, or until the position is filled; UCI is an Equal Opportunity/Affirmative Action Opportunity Educator and Employer. Protected group members are encouraged to apply.

DEAN—DIVISION OF SCIENCE
UNIVERSITY OF MARYLAND COLLEGE PARK
Applications are invited for the position of Dean of the Division of Science. The Division of Science includes the following departments: Biology, Geology, Chemistry, Physics, Mathematics, Social Science, and Computing. The Dean is expected to guide and advise the academic programs in these departments. The successful candidate will have a Ph.D. in an appropriate discipline from an accredited institution and experience in academic administration. Salary is competitive, with excellent fringe benefits. Applications, nominations, and letters of interest should be sent to: Dr. Howard O. Smith, Chairman, Search Committee, University of Maryland at College Park, College Park, MD 20742. Initial screening begins 15 October 1988 and applications will be accepted until the position is filled. U.I.P. is an Affirmative Action/Equal Opportunity Employer.
THE UNIVERSITY OF CALIFORNIA, DAVIS
VICE CHANCELLOR—RESEARCH AND
DEAN—GRADUATE STUDIES

The University of California, Davis, is seeking to fill two executive positions: Dean—Graduate Studies and Vice Chancellor—Research.

The Dean—Graduate Studies will provide overall management of the graduate programs; increase the number of graduate students from underrepresented groups; help form new graduate degree programs to capitalize on present and emerging campus strengths; reevaluate and increase the bases of support for and strengthen the administration of interdepartmental programs and graduate groups; and increase financial support for graduate students. The Dean—Graduate Studies helps assess and plan for meeting campus needs for financial and other resources for graduate education and, in consultation with other administrators and faculty, plays a key role in the establishment, review, and revision of postbaccalaureate programs.

The Vice Chancellor—Research is the senior campus officer responsible for overall leadership, development, management, and quality of the research programs of the Davis campus. The Vice Chancellor—Research will enhance, promote, and oversee research within all of the campus’s colleges, schools, hospitals, and clinics; enhance the research ethos of the campus; increase and manage extramural financial support including support for large, long-term, and interdisciplinary projects; increase the computing capacity of the campus; and further relationships with government and industry.

Applications and nominations for these positions are invited. Nominations and applications should be sent to Chancellor Theodore L. Hullar, Office of the Chancellor, University of California, Davis, CA 95616. Applicants should include a curriculum vita and the names, addresses, and telephone numbers of five references. Applications and nominations desired by 17 October 1988; positions open until filled. Salary will be commensurate with experience and qualifications.

An Equal Opportunity/Affirmative Action Employer

Toxicologist

The Drug Safety Evaluation Department of Pfizer Central Research has an opening for a Research Scientist with a PhD in Toxicology/Pharmacology or DVM with training in toxicology. Pharmaceutical or related toxicological experience is desirable but not required.

Responsibilities will include protocol design, safety study supervision, data analysis and preparation of reports for regulatory submissions. Effective oral and written communication skills are essential.

The position offers an exceptional opportunity for professional recognition and growth. We offer an excellent salary, benefit and relocation package, plus an attractive Connecticut shore location. Qualified applicants should submit their resume, including the names, addresses and phone numbers of three professional references, to: Mr. Donald R. Nelson, Manager of Employee Resources, Pfizer Central Research, Eastern Point Road, Groton, CT 06340.

Pfizer
An equal opportunity employer

DIRECTOR, OCEAN BIOLOGY/OPTICS/CHEMISTRY DIVISION

The Office of Naval Research (ONR) is seeking an outstanding individual to serve in this Civil Service position in the Senior Executive Service. Salary range is $64,700 to $73,400, depending on qualifications. In addition to salary, career SES appointees are eligible to compete for performance awards and bonuses.

The Director, Ocean Biology/Optics/Chemistry Division is responsible for providing leadership, coordination and direction for ONR's $12M fundamental and applied research programs in biological, optical and chemical oceanography. The Division Director is the scientific administrator of ONR R&D activity in the described fields with full responsibility for staffing his/her program, establishing overall priorities and procedures, and recommending changes in program objectives and policies to the Director, Ocean Sciences Directorate. The Division Director serves as the principal consultant to the Navy on developing naval applications in biological, optical and chemical oceanography and related fields.

Candidates should possess a Ph.D. or equivalent in oceanography with significant experience in biological, optical and/or chemical oceanography. Considerable experience in fiscal and program administration, plus management and performance of research and its application to development is also required.

Interested persons should submit a Standard Form 171, Application for Federal Employment (available at Federal Job Information Centers or from the address below) and a resume, including a list of publications, to:

Office of the Chief of Naval Research
Civilian Personnel Division, Code 01242P
Attn: Announcement 88-50 (S)
800 North Quincy Street
Arlington, VA 22217-5000

Applications will be accepted through 31 October 1988 and must be received by that date. Applicants are requested to complete the appropriate supplemental forms. For further information and supplemental forms, please call (202) 696-4705.

U.S. CITIZENSHIP REQUIRED • AN EQUAL OPPORTUNITY EMPLOYER
POSITIONS OPEN

CURATOR OF BOTANY. The New Mexico Museum of Natural History seeks a collections-oriented botanist. Ph.D. required, with research experience in systematics; preferred interest in biogeography, especially Southwestern flora and paleobotany; and demonstrated potential to obtain outside funding. Duties include participation in public programs. Salary $21,000 to $30,000. Send curriculum vitae, selected reprints, and names of three references by 31 October 1988 to: Chairman, Science Department, New Mexico Museum of Natural History, P.O. Box 7010, Albuquerque, NM 87194-7010. State of New Mexico is an Affirmative Action/Equal Opportunity Employer.

The University of Miami invites nominations and applications for the position of Director of the Rosenstiel School of Marine and Atmospheric Science. The Dean is responsible for the administrative and academic programs of the School. In addition, the Dean must lead an aggressive campaign to acquire financial support from government agencies, foundations, and the private sector. The Dean of the Rosenstiel School reports to the University Provost. Candidates must have an earned Ph.D. and an established reputation as a distinguished scientist, as well as leadership and administrative experience. The University of Miami is an Equal Opportunity Employer.

Applications including cover letter, curriculum vitae, and names and addresses of three references as well as nominations should be sent to: Dr. Pamela A. Ferguson, Chair of Rosenstiel School Search Committee, Graduate School, 210 Ferre Building, P.O. Box 248125, University of Miami, Coral Gables, FL 33124.

DIRECTOR OF CLINICAL HEMATOLOGY LABORATORY
CASE WESTERN RESERVE UNIVERSITY/UNIVERSITY HOSPITALS OF CLEVELAND

The Division of Clinical Pathology of the Department of Pathology, Case Western Reserve University School of Medicine and University Hospitals of Cleveland is seeking a Director for its Clinical Hematology Laboratory. Duties involve hospital service, teaching and training, and research. The Laboratory is housed in new quarters, which are geographically and administratively integrated with the other components of the Division of Clinical Pathology. Rank and salary according to qualifications and experience. The new Director will also have the opportunity to appoint a more junior faculty colleague to work in laboratory hematology. Applicants should be certified in clinical pathology, and preferably also in the hematology subspecialty. Send curriculum vitae, bibliography, brief statement of background and career goals, and names of three references to: Michael E. Lamm, M.D., Director, Institute of Pathology, Case Western Reserve University, 2085 Adelbert Road, Cleveland, OH 44106. Case Western Reserve University and University Hospitals are Equal Opportunity/Affirmative Action Employers.

DIRECTOR OF CLINICAL PATHOLOGY
CASE WESTERN RESERVE UNIVERSITY/UNIVERSITY HOSPITALS OF CLEVELAND

Applications are invited for Director of the Division of Clinical Pathology at University Hospitals of Cleveland, the 850-bed principal teaching hospital of Case Western Reserve University School of Medicine. This Division of the Department of Pathology, which includes hematology, chemistry, microbiology, immunology, and blood banking, is responsible for all clinical laboratory services, and is physically and administratively integrated in well-equipped, new quarters with a new hospital laboratory computer system. Rank and salary commensurate with qualifications and experience. Applicants should be certified in clinical pathology, active in research, and committed to teaching and training. Send curriculum vitae, bibliography, names of three references, and a brief statement of background and career goals to: Michael E. Lamm, M.D., Director, Institute for Pathology, Case Western Reserve University, 2085 Adelbert Road, Cleveland, OH 44106. Case Western Reserve University and University Hospitals are Equal Opportunity/Affirmative Action Employers.

CAREER OPPORTUNITY IN SCIENCE PUBLISHING

PRODUCT DEVELOPER — TRAINING POSITION

Raven Press, a publisher of books and journals in clinical medicine and biomedical sciences, located in New York City, is seeking a creative and energetic person to enter its Product Development Training Program. The successful candidate will have a Ph.D. in genetics, microbiology/animal cell biology, virology or immunology and an ability to communicate at a high level with research authors. Under the direction of our Editor-in-Chief, Science, you will learn the entire publishing process, including the process of acquiring successful science products from the leading research scientists in the U.S. and abroad.

Science publishing will allow you to combine your academic background with a career in publishing which will be both intellectually challenging and financially rewarding. Qualified candidates should send resume with salary requirements to: Oliver Esman, Raven Press, Ltd., 1185 Avenue of the Americas, New York, NY 10036 An Equal Opportunity Employer

Ph.D. RESEARCH SCIENTIST
HEMODYNAMICS/VASCULAR DISEASE

Wyeth-Ayerst Research, subsidiary of Fortune 100 American Home Products Corporation, has an opening for a Ph.D. Scientist in its Cardiovascular Pharmacology Section.

We are currently seeking a scientist with a Ph.D. in Pharmacology or Physiology with 2 to more years relevant experience in the in vivo study of cardiovascular hemodynamics and vascular disease. The ideal candidate will be familiar with animal models of hypertension and/or myocardial ischemia, with experience in the measurement of regional blood flow and cardiac function. An understanding of the cellular events underlying cardiac and vascular contraction is an advantage. A strong publication record and the ability to communicate research findings orally and in written reports is essential. The successful candidate will interact closely with cardiovascular biochemists and cellular pharmacologists in the development of novel therapeutic agents for the treatment of hypertension and its sequelae, ischemic heart disease, thrombosis and sudden cardiac death. Preference will be given to those candidates with a demonstrated ability to perform independent and creative research.

Wyeth-Ayerst offers an excellent salary and benefit package plus career advancement opportunities along with an ultra-modern research facility.

Interested candidates should send resume and salary requirements to:

Personnel Manager, Dept. TC

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Princeton, NJ 08543-8000
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DEPARTMENT HEAD
Genetics and Cell Biology
University of Minnesota
Minneapolis-Saint Paul

The Department of Genetics and Cell Biology is seeking highly qualified candidates for a position of Department Head. This department of 27 faculty is a major teaching and research unit of the College of Biological Sciences. The Department Head will be selected on the basis of administrative and leadership abilities. The individual selected for this position should have a strong, continuing record of research accomplishment and will be expected to maintain a vigorous research program in an area that is complementary to existing departmental research efforts in genetics, cell biology, and developmental biology. This appointment is at the rank of Professor with tenure.

Nominations, applications, and expressions of interest are invited and should be received as soon as possible. Applications for this position should include a curriculum vitae (with teaching experience indicated) and names and addresses of three potential referees. Applications must be received by November 1, 1988. Please address nominations and applications to Ms. Ellen Dahl; Administrator, Department of Genetics and Cell Biology; 250 Biological Sciences Center; 144S Garvin Avenue; The University of Minnesota; Saint Paul, Minnesota 55105; (Telephone 612/624-2240).

The University of Minnesota is an equal opportunity educator and employer and specifically invites and encourages applications from women and minorities.

FACULTY POSITION

The Department of Microbiology and Immunology, University of Rochester School of Medicine and Dentistry is seeking applicants for a tenure track Assistant/Associate Professor in the area of Prokaryotic Molecular Biology/Microbial Genetics. A Ph.D. in Microbiology, Biochemistry or a related field; at least two years of postdoctoral experience and a strong record of research funding or potential for funding is required.

The School of Medicine and Dentistry enjoys a long tradition of interactions among basic science departments and clinical units, and the Department of Microbiology and Immunology takes part in cooperative programs with other colleges in the University. Faculty in the Department teach in the graduate program, and may also be involved in the medical curriculum, in post-graduate dental education or in an undergraduate track leading to a B.S. in Biological Sciences. Salaries and research start-up funds are competitive based on qualifications. Applicants should submit a complete curriculum vitae, including names of three referees and a description of research interests, to Barbara H. Iglewski, Chair, Department of Microbiology and Immunology, Box 672, University of Rochester School of Medicine and Dentistry, Rochester, New York, 14642 to arrive before 1 November 1988. The University of Rochester is an equal-opportunity employer (M/F).

Enrico Fermi Scholar Program in Science and Engineering

Argonne National Laboratory seeks outstanding doctoral degree recipients for these distinguished research appointments. Individual Enrico Fermi Scholar opportunities will be available in most research areas at Argonne including Biology, Chemistry, Materials Science, Condensed Matter studies at the Intense Pulsed Neutron Source, Nuclear Physics, Atomic Physics, High Energy Physics, 7Gev Advanced Photon Source related accelerator and materials studies, Chemical Technology, Reactor Safety, Materials and Components Technology, Reactor Physics, Energy and Environmental Science and Technology, and Engineering.

Honoring Enrico Fermi who founded the laboratory which became Argonne, these appointments are intended to recognize scientists and engineers who exhibit the potential to emerge as leaders in their field. Appointments will be awarded on a competitive basis to promising scientists who are about to earn a doctorate or who have earned one within the last three years. Candidates should submit a resume and a statement of research interests. Applicants will be evaluated by a group of staff members assembled for this purpose in the appropriate Argonne Divisions. The candidates' excellence and creativity in research will be the basis for final selections.

Annual stipends will range from $35K to $50K, depending upon discipline and experience. Appointments will be for two years.

For more information and application material, write to: Ronald A. Johns, Appointments Officer, Ref. D-EFA-55, Argonne National Laboratory, 9700 So. Cass Avenue, Argonne, IL 60439. Completed applications must be received by January 1, 1989. Argonne is an affirmative action/equal opportunity employer.

ARGONNE NATIONAL LABORATORY
University of Chicago/DOE

Research Scientist
Molecular Biology/Virology

The Upjohn Company, a worldwide leader in the research and development of pharmaceuticals, is seeking a Research Scientist to join a Discovery Project Team investigating novel methods to enhance livestock production through the manipulation of gene expression. The candidate will be expected to carry out research employing viral/retroviral systems to introduce key genetic elements into specific cell types and tissues using the latest technologies. This individual will interface with project team members to work toward identification of genetic elements associated with adipose, hepatic and muscle cell growth and differentiation as well as the design and execution of experimentation to transfect those elements into test systems suitable for study. The successful candidate must have a Ph.D. degree plus a minimum of 2 years' postdoctoral or recent and related experience. Demonstrated proficiency in virology/retrovirology and recombinant DNA technology is mandatory.

We are located in Southwestern Michigan, midway between Chicago and Detroit, in an area offering varied cultural events, lakes and woodlands minutes away, abundant year-round sports and recreation and a reasonable cost of living. Upjohn offers advancement opportunities, a highly competitive salary commensurate with experience, comprehensive benefits and relocation assistance. For prompt, confidential consideration, please send your CV/resume and a copy of transcripts to M. William Rex, The Upjohn Company—Corporate Employment, Kalamazoo, MI 49001. Please refer to advertisement number 235104CA in your correspondence. We are an Equal Opportunity Employer M/F.

Our Commitment to Scientific Excellence Continues . . .

Upjohn
EDUCATION

ASSOCIATE DEAN UNDERGRADUATE EDUCATION

The University of Maryland College Park is currently accepting applications for an Associate Dean to provide academic and administrative leadership for academic affairs, including undergraduate programs, for the College of Life Sciences and the College of Agriculture. Responsibilities include developing and administering high quality academic programs (including curriculum); participation in resource allocation decisions for undergraduate education; and serving as liaison to public schools, other colleges, extension faculty, and the community. Qualifications include an earned doctorate in life sciences or agriculture area; being tenurable in an academic department of one of the colleges; a proven record of excellence (of five or more years) in college teaching and scholarship; evidence of effective leadership and organizations skills; and a working knowledge of a college of agriculture of life sciences.

Qualified individuals should submit a letter of application and a detailed resume including names, addresses, and phone numbers of three references who may be contacted, to:

Dr. Arthur N. Popper, Chairman
Search Committee for Associate Dean
Department of Zoology
Room 1200, Zoology/Psychology Building
University of Maryland
College Park, Maryland 20742

Complete applications should be received by October 17, 1988 for full consideration, but may be accepted until a suitable candidate is selected. The University of Maryland is an Equal Opportunity/Affirmative Action Employer.

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WRITE TO:

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

HEAD, DEPARTMENT OF VETERINARY PATHOLOGY, COLLEGE OF VETERINARY MEDICINE

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

The position is available January 1, 1989 or until filled. Qualifications include DVM or equivalent degree, and/or PhD in a biological area. Organizational and administrative experience is required. A record of demonstrated fiscal responsibility, personnel management, and leadership is desirable. Applicants should have sufficient accomplishments to make them eligible for academic appointment as a full professor and for membership on the Graduate Faculty of the University.

The incumbent will be responsible for the execution of departmental, College, and University policies and shall provide direction for departmental activities (research, professional and graduate teaching, and services). The department is organized in four divisions: microbiology-immunology, parasitology, pathology, epidemiology and public health. It maintains close liaison with the Diagnostic Laboratory and carries out diagnostic responsibilities.

The head is responsible for maintaining high standards of scholarship in the department and will initiate and supervise the departmental recruiting, promotion, and tenure activities. He/She will prepare departmental budgets and be responsible for distribution and expenditure of departmental funds and for care of space and property assigned to the department.

The salary is negotiable. The closing date is November 1, 1988. In order to ensure full consideration, applicants should submit resume and the names and addresses of three referees to:

Dr. Gary Jackson
Chairman, Search Advisory Committee
Office of the Dean
College of Veterinary Medicine
University of Illinois
001 South Lincoln Ave.
Urbana, Illinois 61801
Telephone: (217) 333-2760

THE UNIVERSITY OF ILLINOIS IS AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER

IDEON CORPORATION is a biotechnology research and development company located in Redwood City, CA. IDEON's research focuses on the development of therapeutic products in the areas of cancer, infectious and autoimmune disease, using novel immunotherapeutic, recombinant antibodies and immunomodulators. IDEON is expanding and seeking two scientists with leadership ability to join our growing scientific and management teams.

Director of Molecular Biology
Director of Immunology

These individuals will assume overall responsibility for leading research groups involved in several aspects of molecular biology or immunology at IDEON. These positions will require individuals with an outstanding record of productive research in either molecular biology or immunology who are innovative and have the ability to interact and lead others. In addition to a Ph.D., the successful candidates will have a minimum of five years of professional experience and accomplishment within an academic or industrial setting. The individuals will be encouraged to interact closely with IDEON's scientific advisors and academic collaborators, initiate new collaborations and take an active role in IDEON's ongoing postdoctoral program.

Qualified candidates will have an opportunity to join a growing company with the added strength of pharmaceutical manufacturing capability provided by IDEON's affiliation with INVITRON CORPORATION. These positions with IDEON CORPORATION offer excellent salary, substantial equity participation and other benefits. An equal opportunity employer.

IDEON

For confidential consideration, please forward your C.V. and a list of three references to IDEON CORPORATION, Attn: R & D Department, 301 Penobscot Drive, Redwood City, CA 94063.
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○ = continuity of life      △ = quest for knowledge  □ = resolution
ENVIRONMENTAL HEALTH SCIENTIST/TOXICOLOGIST. The Board on Environmental Studies and Toxicology of the National Academy of Sciences is seeking a professional in toxicology, epidemiology, environmental health, or a closely related biological or biomedical field. The individual selected for this position is expected to be able to manage and participate in research, development, and consultation as part of a team. This position is located in the Washington, D.C. area.

UNIVERSITY OF FLORIDA FACULTY POSITION—CLINICAL PHARMACOLOGIST/INTERNIST

The Department of Pharmacology and Therapeutics of the College of Medicine, in cooperation with the Department of Medicine, invites applications for a full-time tenure-track assistant professor appointment in pharmacology. Applicants must be Board qualified or eligible in a subspecialty of Internal Medicine and have had training in clinical pharmacology. The successful candidate will have leadership skills and be expected to develop an independent research program, coordinate the teaching of therapeutics to upper year medical students and residents, and participate in clinical care. Salary will be commensurate with level of experience and accomplishment. Applicants should send curriculum vitae, a list of the five most recent publications, and names of three references to: Dr. Kathleen Shiverick, Box J-267 JHMHC, Gainesville, FL 32610 before 17 October 1988. Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN VIROLOGY. Tenure-track assistant or associate professor position in a growing laboratory with research strengths in molecular virology and immunology. Preference will be given to individuals with independent research programs in the infection and immune response of infectious disease systems. Potential for collaboration with other large scale research programs in inflammation, oncology, atherosclerosis, and molecular genetics. The successful candidate will be expected to participate in teaching of graduate and medical students. Send curriculum vitae, description of research goals, and names of three references to: Dr. Steven Miezl, Chairman, Department of Microbiology and Immunology, Bowman Gray School of Medicine, Wake Forest University, Winston-Salem, NC 27103. BIP is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION—MOLECULAR GENETICS AND IMMUNOLOGY. The Center for Molecular and Cellular Medicine at Dartmouth Medical School has an academic track faculty position available (rank open) at the interface of molecular genetics and immunology. Candidates should hold the Ph.D. or M.D. degree and have a minimum of 2 years of postdoctoral experience. The successful candidate will join the Program in Molecular Genetics and will hold an academic appointment in an appropriate basic science or clinical department of Dartmouth Medical School. Faculty are expected to maintain a strong research program and participate in the teaching of medical and graduate students.

Send curriculum vitae, statement of research plans, and the names of at least three references to: Molecular Genetics, Dartmouth Medical School, Hanover, NH 03755. The closing date for applications is 30 November 1988.

Equal Opportunity Employer. Women and minority applications are encouraged.

FACULTY POSITION—MOLECULAR PHARMACOLOGY/TOXICOLOGY. The Department of Pharmacology, Northwestern University Medical School, invites applications for a tenure-track assistant or associate professor position. The department invites applications from individuals who have had postdoctoral training and demonstrated excellence in research and commitment to teaching. Preference will be given to those who have had experience in application of molecular biology, genetics, cell biology, or immunology to pharmacology/toxicology areas. Send curriculum vitae, description of research interests and plans, and letters from three references, and a brief statement of future research plans to: Dr. Tosho Narahashi, Professor of Pharmacology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611. Telephone: 312/922-2824. Equal Opportunity/Affirmative Action Employer.

POPULATION, BEHAVIORAL, OR EVOLUTIONARY ECOLOGIST

The Department of Life Sciences invites applications for a position as assistant professor (tenure-track) beginning January, 1989. Applicants must possess a Ph.D. and evidence of productive research. Applicants with research interests in studies of animals, plants, or plant-plant interactions and a strong background in ecological and evolutionary theory are encouraged to apply. All applicants must have a strong interest in teaching and research at the undergraduate and graduate levels and in directing doctoral dissertations. Applications received after 9 October 1988 cannot be assured of full consideration. Please send curriculum vitae and names of three references to: Dr. William J. Brett, Chairperson, Department of Life Sciences, Indiana State University, Terre Haute, IN 47809. Equal Opportunity/Affirmative Action Employer.
ADVERTISEMENT FOR POST OF DIRECTOR OF ICGBE

The International Centre for Genetic Engineering and Biotechnology (ICGBE) is an intergovernmental organization being established by 41 countries as a centre of excellence devoted to the application of genetic engineering and biotechnology for development. The United Nations Industrial Development Organization (UNIDO) assists the member countries of the ICGBE in establishing the Centre. Pending the formal establishment of the Centre, its activities are carried out through a project implemented by UNIDO.

The post of Director of the Centre is due for fresh election from 1 July 1989 for a period of three to five years. Applications from outstanding scientists are invited. The post will carry remuneration at a level not less than that of a Director of a Division in the United Nations. A higher salary level may be allowed in a suitable case. Candidates should be persons of the highest possible international standing and respect in the scientific and technological fields of the Centre. Due regard shall be given to (i) experience in the management of a scientific centre and a multidisciplinary team of scientists; (ii) ability to effectively interact with member governments, international institutions and the world scientific community; (iii) commitment to the objectives of the Centre and in particular to the strengthening of technological capabilities of developing countries; (iv) commitment to international co-operation in the field of genetic engineering and biotechnology. The candidate, if selected should be ready to move to Trieste from the day of appointment.

The selection process involves screening by scientific experts as well as by a committee comprised of members of the Panel of Scientific Advisers of the ICGBE and representatives of member governments. A final decision will be taken in February 1989.

The Centre has two Components: Trieste, Italy and New Delhi, India. At its full operation, it will have a staff of over 50 senior and junior scientists. Its functions will essentially be in research and training of nationals of developing countries. It will maintain close links with a number of affiliated centres in developing countries. The work programme includes application of genetic engineering and biotechnology in agriculture, human and animal health and productivity, industrial microbiology, energy and protein engineering. The Director’s work will be reviewed by the Preparatory Committee of member states, which is the interim Board of Governors. He will initially be appointed as a project official of UNIDO and will be assisted by two senior scientists as the Heads of the two Components and other staff.

Applications, and/or nominations, for this challenging assignment indicating the date of availability and readiness to join the duty station in Trieste by 1 July 1989 and accompanied by detailed curriculum vitae should reach UNIDO before 15 October 1988 by telex or express letter addressed to the Senior Technical Adviser, Department of Industrial Promotion, Consultations and Technology, UNIDO, P.O. Box 300, 1400 Vienna, Austria. Telex No. 135612

Employment Opportunities

Civilian Employment
Department of National Defence
Canada

Applications are invited from new graduates, students graduating within the coming year or recent graduates employed as Post Doctoral Fellows to meet present and future needs for civilian Defence Scientists. You would be joining a team of over 550 Defence Scientists distributed across seven research establishments in Canada who are involved with applied research and development; social, economic, and strategic analysis; and operational research. The main locations are near Halifax, Quebec City, Ottawa, Toronto, Victoria, and Medicine Hat (Alberta).

Fields and Specialties:
- Biology — microbiology, pharmacology, toxicology, physiology, biophysics, radiobiology
- Chemistry
- Computer Science
- Economics
- Engineering — except forestry and geology
- History — military
- Mathematics — applied mathematics and operational research
- Physics
- Psychology — experimental
- Political Science — strategic studies, international relations
- Sociology

High academic standings and a Master’s or Doctorate degree in one of the above fields from a recognized university are required.

Preference will be given to Canadian citizens. Due to the nature of the work, all employees will require security clearance. Starting salaries range from $27,000 to $40,000 dependent on individual qualifications. Benefit levels and salary advancement patterns are fully competitive.

Further information may be obtained at the address given below.

To apply, forward your résumé and/or application form to the following address indicating your primary fields of interest. Please enclose copies of all your academic transcripts and the names and addresses of three individuals who may be contacted in reference to your professional abilities.

Director of Defence Scientist Personnel Programs
National Defence Headquarters
Ottawa, Canada
K1A 0K2

Attention: DDSPP-4

Personal information you provide is protected under the Privacy Act. It will be held in Personal Information Bank DND/P.SS-902.

The Department of National Defence is an equal opportunity employer.
Vanderbilt University
Faculty Positions in Molecular Biology

The Department of Molecular Biology invites applications and nominations for three faculty members.

- **Stevenson Professor of Molecular Biology**, a new chair endowed by the generous bequest of Eldon Stevenson. We seek an individual with an outstanding record of accomplishment whose research interests are molecular aspects of cell and/or developmental biology, primarily in mammalian systems.

- **Two faculty positions, open at any rank.**
  1. **Mammalian molecular biology.** All areas of cell/molecular/developmental biology will be considered.
  2. **Molecular biophysics or structural biology.** Possible areas of interest include X-ray crystallography, 2-dimensional NMR and other spectroscopic methods, and electron microscopic image reconstruction.

Laboratory space and start-up funds will be appropriate for establishing vigorous research programs. Responsibilities include the conduct of productive research and participation in our instructional programs. Preference will be given to candidates who apply before November 1, 1988. Applicants should submit curriculum vitae, a description of research interests and plans, and names and addresses of at least three references to Dr. Oscar Touster, Chairman, Department of Molecular Biology, Box 6076, Station B, Vanderbilt University, Nashville, TN 37235. Women and minority scientists are urged to apply. An Equal Opportunity/Affirmative Action Employer.

### RESEARCH SCIENTIST

**ANIMAL SCIENCE**

Amgen is a dynamic and growing organization producing pharmaceutical products for a variety of human and animal applications through applied biotechnology. As a result of our growth and continued commitment to the development of animal health care products, we have an immediate opportunity for an Animal Scientist to evaluate ongoing research products for their applications in farm animal health, growth and development.

Responsibilities for this position will include interaction with Amgen research and therapeutic development groups as well as study design, selection of field investigators, monitoring and coordinating field studies and evaluation of data.

Qualified candidates must have a Ph.D. and/or DVM. Specialization in animal physiology and endocrinology is desirable. Experience with farm management practices and disease problems as well as familiarity with field study design and statistics is essential. A thorough knowledge of field modeling methods is also important.

Amgen offers a stimulating and challenging research environment as well as an excellent compensation and benefits package, including equity offerings.

Our location northwest of Los Angeles in an attractive community in the Conejo Valley offers the best in Southern California living.

Qualified applicants should send a curriculum vitae, including references, in confidence, to:

**Recruitment, Dept. #307A**

Amgen
1900 Oak Terrace Lane
Thousand Oaks
CA 91320

Equal Opportunity Employer
HEAD, DEPARTMENT OF BIOLOGY
EASTERN MICHIGAN UNIVERSITY

A twenty-one member department offering B.S. and M.S. degrees is re-opening search for an individual with successful administrative experience, a broad biology background, and preferably computer experience. A Ph.D. in the Biological Sciences and 5 years of college teaching experience are required. Eastern Michigan University, a state university with an enrollment of 23,000 students, is located in Southeastern Michigan. A cover letter, a vita, and 3 letters of recommendation must be received by December 26, 1988. Send materials to: Position DH-B, P.O. Box 920 - Human Resources, Eastern Michigan University, Ypsilanti, MI 48197.

We take pride in the pursuit of our affirmative action objectives and encourage qualified women and minorities to consider this opportunity.

DIRECTOR OF MAMMALIAN TOXICOLOGY

Major West Coast research institute seeks an experienced toxicologist for Director of Mammalian Toxicology Department. SRI INTERNATIONAL is a multidisciplinary research environment with programs encompassing acute, subchronic, chronic, inhalation, reproductive, genetic, and cellular toxicology. Individual must have strong research background, ability to manage large programs, and obtain research funding from outside sponsors. Experience with conducting studies for regulatory approval desirable. Excellent facilities, support staff, and benefits. Interested applicants should send curriculum vitae, including publications list and research interests, and names of three references, to Dr. Robert Sutherland, Vice President, Life Sciences Division, SRI INTERNATIONAL, 333 Ravenswood Ave., Menlo Park, CA 94025. An equal opportunity employer.

CAREER OPPORTUNITY IN AGRICULTURAL BIOTECHNOLOGY

The Biotechnology Laboratory of EniChem Americas, Inc. has an opening for a Senior Scientist at our Research and Development Center near Princeton, N.J. This is a unique opportunity to join a group of highly motivated researchers developing programs on crop improvement through biotechnology.

The position requires coordinating and performing greenhouse and field evaluations of transgenic plants. Individual would become intimately involved in research projects aimed at production of transgenic plants having improved characteristics. The position will require considerable interaction with other researchers and university collaborators involved in the projects. The individual would also have responsibility for maintaining an awareness and insuring compliance with appropriate regulatory policies. Considerable interaction with outside collaborators and company personnel involved with commercial development is expected.

The ideal candidate would have prior industrial experience with plant biotechnology and should have a strong background in whole plant physiology and agronomy at the Ph.D. level.

The successful candidate will enjoy the benefits of joining a new research team in a well-equipped, custom-designed facility supported by a major European corporation. EniChem Americas Inc. is an affiliate of Eni, the chemical arm of ENI (Ente Nazionale Idrocarbur, Italy). EniChem offers competitive starting salaries as well as an excellent benefits package.

If interested, please submit your Curriculum Vitae in confidence to:

Personnel Coordinator
EniChem Americas, Inc.
Research and Development Center
2000 Princeton Park Corporate Center
Monmouth Junction, New Jersey 08852

Equal Opportunity Employer m/f

Cardiovascular Biochemist and Physiologist

Pfizer Central Research has openings for a Ph.D. Biochemist and Physiologist in a Cardiovascular Drug Discovery Project within the Department of Metabolic Diseases and General Pharmacology. Primary responsibilities will include performing research in the development of novel pharmacological agents for the treatment of hypertension and congestive heart failure.

Persons applying for the Biochemist position should have at least 1-3 years postdoctoral training, with experience in enzymology, competitive binding assays, peptide identification techniques (HPLC), and/or the pharmacokinetics of drug disposition. A knowledge of protein chemistry of computer modeling of enzyme-inhibitor interactions would be helpful to the position.

Persons applying for the Physiologist position should have 1-3 years post-doctoral experience in cardiovascular or renal physiology. Research experience in the area of hypertension, and specifically the renin angiotensin system’s involvement in hypertension is preferable. The ability to perform chronic cardiovascular and/or renal function studies with some knowledge of computerized data acquisition techniques is essential to the position. Experience in working with non-human primates would be helpful.

These positions offer a stimulating intellectual environment with potential for professional growth. We are located in an attractive southeastern Connecticut shore location and offer competitive salary/benefits package with relocation assistance. Qualified applicants should submit their resume and description of research experience to: Dr. Jerry K. Larson, Manager of Employment, Pfizer Central Research, Eastern Point Road, Groton, Connecticut 06340.

An equal opportunity employer.
INSECT PHYSIOLOGIST/BIOCHEMIST

Applicant must possess a Ph.D. degree in biology or biochemistry and have at least 3 years of postdoctoral training. Ph.D. and postdoctoral education should include at least 3 years of work in insect physiology/biochemistry, and have experience in the control of energy metabolism in insects, such as Manduca sexta, as well as experience in lipid and carbohydrate metabolism, peptide purification and synthesis. The applicant is expected to conduct independent research, to publish original papers in the above areas, and to supervise students and technical employees. Thirty hours per week, $24,000 annual salary. Qualified and interested applicants are invited to submit a letter to: AZ DES Job Service Attention 732-A Re: 0802682, PO Box 6123, Phoenix, AZ 85005 (Job Location: Tucson, AZ. Employer paid ad. Proof of authorization to work in U.S. required if hired.)

JUNIOR OR SENIOR FACULTY POSITION
MOLECULAR PATHOGENESIS

The Department of Microbiology and Immunology invites applications for a junior or senior level, tenure-track position focusing on significant problems in bacteriological pathogenesis using genetic and molecular approaches. Successful candidates should have strong records of research accomplishment with sustained program growth and development. Junior candidates will be expected to develop a vigorous laboratory program producing original research publications in high-impact refereed journals, and generate start-up funds and excellent salary and benefits. Academic appointment to an appropriate department at the University of Tennessee is encouraged. The Department is a vibrant, congenial environment in which the successful candidate will develop a full-time independent research program and interact with colleagues investigating significant biomedical problems. Postdoctoral experience is desirable. A starting date of July 1989 is anticipated. Applications are invited from anyone with a strong background in molecular microbiology or molecular genetics. The University of Tennessee is an Equal Opportunity Employer. Applicants must send a letter of interest, curriculum vitae, copies of a significant research paper, and three letters of reference to: Dr. G. Cooper, Department of Microbiology and Immunology, University of Tennessee, 858 Madison Avenue, Memphis, TN 38163. Applications will be received until 1 October 1988 or until the position is filled thereafter. The University of Tennessee is an Affirmative Action/Equal Opportunity Employer.

MOLECULAR BIOLOGIST—Postdoctoral or junior level. Dual appointment at McLean Hospital/Harvard Medical School within a multi-disciplinary laboratory setting, to work on the expression and function of proteolytic enzymes in neural cells, the role of proteolysis in cytoskeleton-membrane interactions, and the relationship of these processes to Alzheimer’s disease. Demonstrated past experience in molecular cloning and related molecular genetic techniques is required. Send curriculum vitae and letters of reference to: Ralph A. McLean, Ph.D., M.D., Mallinckrodt Clinical Research Center, McLean Hospital, Belmont, MA 02178.

FISH ECOLOGIST/RESEARCH ASSOCIATE

The Natural Resources Research Institute of the University of Minnesota, Duluth, invites applications for a senior level fish ecologist. We are seeking a person with expertise in either fish-habitat relationships or production ecology. The initial appointment will be for 3 years; this is an appointment to the University’s professional research staff. Minimum qualifications: Ph.D. in an ecological science and 1 to 2 years experience. Desired qualifications: Ph.D. in a biological science, 1 to 3 years of experience, publications in peer-reviewed journals and demonstrated ability to attract external funding. Starting date and salary are negotiable. Applications postmarked by 15 October 1988. To apply, send an application letter, résumé, and the names and telephone numbers of five references to: Personnel Director, Natural Resources Research Institute, University of Minnesota, Duluth, 3151 Miller Truck Trunk Rd., Duluth, MN 55811. The University of Minnesota is an Equal Opportunity Employer and specifically invites and encourages applications from women and minorities.

Italfaraco s.p.a. is an innovative, rapidly growing company, with headquarters located in Milano (Italy), dedicated to basic research in the field of cardiovascular disease and immunology. ITALFARMACO currently has two career opportunities for research scientists within the Pre-Clinical Research Department Division.

IMMUNOLOGIST/CELL BIOLOGIST

The research scientist will conduct research on immune cells and their interaction in health and disease. The research goals of these positions will lead to the discovery of new drugs in the field of immunopharmacology. The individuals should have experience with culture of cell lines, molecular biology, and/or expertise using nude mice for the propagation of human tumors, knowledge of radioisotopes and pharmacology as well as experience with tumor transplantation and drug administration in laboratory animals. The successful candidate will have a Ph.D. in cell biology, immunology, pharmacology, or related, with 0 to 3 years of experience.

Other abilities sought include strong written and verbal communication skills, the ability to work in a cell association environment, and/or expertise using nude mice for the propagation of human tumors, knowledge of radioisotopes and pharmacology as well as experience with tumor transplantation and drug administration in laboratory animals. The successful candidate will have a Ph.D. in cell biology, immunology, pharmacology, or related, with 0 to 3 years of experience.

Other abilities sought include strong written and verbal communication skills, and excellent salary and benefits. Academic appointment to an appropriate department at the University of Tennessee is encouraged. The Department is a vibrant, congenial environment in which the successful candidate will develop a full-time independent research program and interact with colleagues investigating significant biomedical problems. Postdoctoral experience is desirable. A starting date of July 1989 is anticipated. Applications are invited from anyone with a strong background in molecular microbiology or molecular genetics. The University of Tennessee is an Equal Opportunity Employer. Applicants must send a letter of interest, curriculum vitae, copies of a significant research paper, and three letters of reference to: Dr. G. Cooper, Department of Microbiology and Immunology, University of Tennessee, 858 Madison Avenue, Memphis, TN 38163. Applications will be received until 1 October 1988 or until the position is filled thereafter. The University of Tennessee is an Affirmative Action/Equal Opportunity Employer.

MOLECULAR GENETICIST

Applications are invited for a tenure-track faculty position at the rank of associate professor or professor in the Department of Cell and Developmental Biology, University of Medicine and Dentistry, University of Alabama at Birmingham (UAB). Applicants should have a Ph.D., M.D., or Ph.D./M.D. degree with extensive postdoctoral experience in molecular genetics and metabolic diseases. The successful candidate will be expected to develop a strong, extramurally-funded research program devoted to molecular mechanisms and treatment of inherited diseases of metabolism. Most dominant, teaching at the graduate level. Submit curriculum vitae, a statement of your career interests and goals, and three references to: Dr. Russell B. Lindsey, Chairman, Department of Comparative Medicine, Schools of Medicine and Dentistry, University of Alabama at Birmingham, Birmingham, AL 35294. Telephone: 205-934-2117. UAB is an Affirmative Action/Equal Opportunity Employer.

MOLECULAR PHARMACOLOGY/CELL BIOLOGY: ASSISTANT PROFESSOR, tenure-track positions (two) in pharmacology with possible joint appointment in new Medical Biotechnology Center. Candidates should have an M.D. or Ph.D. in biomedical field and at least 2 years of postdoctoral experience. Excellent salary, benefits, and opportunities for acquiring expertise in pharmacology, molecular, cell, or molecular biology, and pharmacology. Positions will involve teaching and developing strong, independent research program. Submit curriculum vitae, current statement of research interests, and names of three references by 1 November 1988 to: Dr. David B. Burt, Head, Search Committee, Department of Pharmacology, The University of Maryland School of Medicine, Baltimore, MD 21201. An Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF ALASKA FAIRBANKS MUSEUM DIRECTOR

University of Alaska Museum (AAM accredited natural history museum emphasizing the circumpolar north) seeks a director by nomination or application. Minimum qualifications: Ph.D., research accomplishments in a field of natural history, 5 years of experience in museum administration as a curator or director. University museum experience preferred. Candidates must be committed to developing the Museum’s role within the University and sensitive to its tripartite mission of research, teaching, and public service. Directorate position to include development, balance and integration of programs, fundraising, budget planning and management, personnel, public relations, research, and other forms of cultural programming. Curriculum vitae, letter of interest, and names of three references to: D. F. Murray, Chair, Search Committee, University of Alaska, Fairbanks, AK 99775-1200 (telephone: 907-474-7505) by 30 October 1988. Position will be filled by 1 July 1989.

UAF is an Affirmative Action/Equal Employment Opportunity Employer and Educational Institution.

The Anatomy Department of the Medical College of Ohio has openings for NEUROBIOLOGISTS who are interested in neural organization of the central or peripheral nervous system at the cellular or molecular levels. Positions may be either tenured or tenure-track with teaching responsibility in the anatomy, neuroscience, or neurobiology. Applicants for assistant professorship should have demonstrated the ability to establish an independent laboratory program and the expectation that all positions should have ongoing and funded programs. The Medical College of Ohio offers an excellent research environment and very competitive salaries and start-up funds. Faculty hired in the unit development will join a growing neuroscience group that will be expanded by subsequent recruitment. Forward your curriculum vitae and the names of three references to: Dr. Robert W. Rhodes, Chairman, Department of Anatomy, Medical College of Ohio, C.S. 10008, Toledo, OH 43609. Consideration of applications will begin 1 December 1988. Equal Opportunity Employer.
SCIENTISTS

Genencor, Inc. is a dynamic and growing biotechnology company located in South San Francisco, California. We specialize in the research and development of enzymes and enzyme processes as well as the production of industrial enzymes. We are actively recruiting for several imaginative and innovative scientists to join our Research and Development Departments:

AGRICULTURAL BIOTECHNOLOGY SCIENTIST.

Develop uses for enzymes in such products as herbicides, pesticides and growth promoters. We require a PhD in Biochemistry, Plant Physiology, or Plant Pathology. Experience purifying and characterizing enzymes is essential. Knowledge of plant pests such as pathogenic bacteria or fungi is desirable. Refer to Dept. AJP-51.

FUNGAL PHYSIOLOGIST/GENETICIST.

Design and conduct research of the genetic and physiologic factors which enhance strain production. Utilize classical and molecular genetic approaches to optimize strain performance. Working with our fungal molecular genetics staff, scale up eukaryotic production processes to laboratory fermenters. Requires (1) PhD in Genetics, Microbiology, Biochemistry, or a related field; (2) up to three years of related post doctoral experience with emphasis on the genetic factors controlling gene expression in yeast or fungi; (3) demonstrated expertise in strain development by classical genetics and mutagenesis; and (4) commitment to product-oriented research within a strong team environment. Experience with the regulation of complex multi-enzyme systems is preferred. Current working knowledge of fungal molecular biology or experience with naturally secreted proteins is desired. Refer to Dept. DC-48.

BACTERIAL PHYSIOLOGIST.

Develop and evaluate microbial hosts for the large-scale production of useful proteins. Conduct and optimize fermentations on both the laboratory and pilot plant scales. Requires a PhD in Microbiology or related field, knowledge of genetics and experience using the latest genetic techniques. Some knowledge of engineering principles is useful. Refer to Dept. MA-12.

ENZYMOLIGIST.

As a member of our enzymology group, this position will be responsible for the analysis, characterization and design of enzymes in one or more of our protein engineering projects. Our multi-disciplinary group has made numerous changes in several protein sequences, improving or modifying various enzymes for use in industrial, personal, and health care products. Requires a PhD in Biochemistry or Chemistry, plus an extensive knowledge of protein chemistry, enzyme kinetics and enzyme mechanisms. A strong mathematical background is essential. Refer to Dept. DE-58.

MOLECULAR BIOLOGIST.

Develop new approaches for heterologous gene expression and in vitro mutagenesis in bacteria and fungi. Work within a multidisciplinary team on a variety of projects. We require a PhD in Molecular Biology, Microbiology, or a related field and project leadership ability. Refer to Dept. HH-8.

PROCESS DEVELOPMENT ENGINEER.

Research downstream processing of enzymes from bacteria and fungi. Develop new and improved recovery processes for laboratory – and pilot-scale testing and large-scale fermentation-based manufacturing of enzymes. We require a PhD in Biochemical or Chemical Engineering or an MS plus a minimum of two years related experience in the food, pharmaceutical or biotechnology industries. The successful candidate will have strong interpersonal, communication, and project leadership skills. About 25% travel will be required to implement technology transfers and support our manufacturing facilities. Refer to Dept. TR-59.

We offer a generous compensation and benefits package combined with the challenge and opportunity to make a significant contribution to our outstanding organization. To apply, please send your curriculum vitae to GENENCOR, INC., 180 Kimball Way, South San Francisco, CA 94080. Attn: Human Resources. Please note appropriate Dept. GENENCOR is an equal opportunity employer.
NEPHROLOGY—A POSTDOCTORAL FELLOWSHIP is available beginning 1 October 1989 at the Research Training Center at the University of Alabama at Birmingham. The applicant should be familiar with protein purification and separation techniques. The focus of the project is on the identification and purification of membrane transport proteins, especially the Na+/K+-ATPase pump. Send curriculum vitae and three letters of recommendation to: David G. Warnock, M.D., Director, Division of Nephrology and the Nephrology Research and Training Center, University of Alabama at Birmingham, AL 35294. UAB is an Affirmative Action/Equal Opportunity Employer.

NEUROBIOLOGY

The Department of Biology at Loyola University of Chicago invites applications for a 9-month tenure-track position at the level of ASSISTANT PROFESSOR. A Ph.D. and postdoctoral experience are required. Individuals having thorough training in the neurosciences and who are conducting innovative research using modern techniques will be considered. The successful candidate will develop an active, funded research program, direct graduate student research, and teach an introductory undergraduate neurobiology course, and teach at the graduate level. The postdoctoral experience will be in a research program in genetic and macromolecular biology, neurochemistry, and in situ hybridization is desired. Candidates must have an established record of research publications and have had some teaching experience. Please send letter of interest, curriculum vitae, reprints, and arrange for three letters to be sent to: Search Committee, Department of Biology, Loyola University Chicago, 6525 N Sheridan Road, Chicago, IL 60626. An Equal Opportunity Employer.

PHYSIOLOGIST: The Department of Psychology at the University of Southern California invites applications for a faculty position at the assistant professor level in physiological psychology. The position opens 1 September 1989 at the assistant professor level for a physiological psychologist doing basic animal research in behavioral neurobiology. The successful candidate will direct a research program in molecular and behavioral neurobiology. Experience in biochemical pharmacology and behavioral analysis is desirable. Send curriculum vitae, names of three or more references, and a statement of research interests to: Dr. John P. Ryan, Department of Psychology, University of Southern California, Los Angeles, CA 90089. Applications should be received by 1 December 1988. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE—Applications are invited for a postdoctoral associate position in the Laboratory for Studies in Immunochemistry and Tumor Immunology at Yale University. Principal areas of research are automated three dimension structural determination/renaturation and macromolecular structure/function/relationships. Applicants should have a strong background in computational crystallography, protein chemistry, and cell biology. Appointments are for 2 years with an additional year possible. The salary is $20,000 to $25,000 per year, based on qualifications and experience, and an excellent benefits package is offered. Send curriculum vitae and three letters of reference to: Dr. Axel T. Brunger, Ph.D., Department of Molecular Biophysics and Biochemistry, 260 Whitney Avenue, JWG 604 Yale University, New Haven, CT 06511. An Equal Opportunity Employer.

POSTDOCTORAL ASSOCIATE

Neurophysiologist to study synaptic interactions of neuropeptides in the CNS and to use normal and tumor cells to develop anti-idiotypic vaccines. Approaches include development of new toxin-protein conjugates, hybridoma technology and anti-idiotypic antibodies. Experience in the generation of anti-idiotypic antibodies and in the development of vaccine strategies is essential. Send curriculum vitae, names of three referees to: Michael Friedlander, Ph.D., Department of Immunology, University of Colorado at Denver, Box 914, Denver, CO 80220. An Equal Opportunity Employer.

POSTDOCTORAL ASSOCIATE in MOLECULAR CARCINOGENESIS to conduct research in the Department of Molecular Biology and Development, University of Alabama-Birmingham Medical Center, Birmingham, AL 35294. The project will include the study of cell cycle regulation in preparation for oncogene expression. Send curriculum vitae, names of three references to: Kenton Holton, Ph.D., Department of Biological Sciences, University of Alabama-Birmingham Medical Center, Birmingham, AL 35294. An Equal Opportunity Employer.

POSTDOCTORAL/ASSOCIATE RESEARCH SCIENTIST positions available in the Department of Pharmacology, Duke University Medical Center. Experience in immunochemistry and/or cell biology is desirable. Send curriculum vitae, names of three references to: Dr. W. L. R. Stokstad, Department of Pharmacology, Duke University Medical Center, Box 38147, Durham, NC 27710. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP/RESEARCH ASSISTANT—A postdoctoral fellowship is available for two to three years in the Department of Physiology and Biophysics at the University of Southern California. The research program involves a study of the functional role of the sarcoplasmic reticulum and calcium transport in skeletal muscle. A Ph.D. in physiology or a closely related field is required. Send curriculum vitae and names and addresses of three references to: Dr. Robert W. Koo, University of Southern California, 131 Morgan Hall, Health Sciences Campus, Los Angeles, CA 90089. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW OR RESEARCH ASSOCIATE—Applications are invited for a postdoctoral fellowship or research associate position in the Laboratory for Studies in Immunochemistry and Tumor Immunology at Yale University. Principal areas of research are automated three dimension structural determination/renaturation and macromolecular structure/function/relationships. Applicants should have a strong background in computational crystallography, protein chemistry, and cell biology. Appointments are for 2 years with an additional year possible. The salary is $20,000 to $25,000 per year, based on qualifications and experience, and an excellent benefits package is offered. Send curriculum vitae and three letters of reference to: Dr. Axel T. Brunger, Ph.D., Department of Molecular Biophysics and Biochemistry, 260 Whitney Avenue, JWG 604 Yale University, New Haven, CT 06511. An Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP IN BIOMEDICAL ENGINEERING

A postdoctoral fellowship in Biomedical Engineering will be funded jointly by the Duke University/NSF Engineering Research Center for Emerging Cardiovascular Technologies, and by individual NIH grants held by Dr. J. S. F. Young and Dr. W. M. Reves in the Department of Biomedical Engineering. The position carries a 2-year stipend in the range of $25,000 to $30,000 per year, depending on qualifications. The minimum background for applicants is a Ph.D. in biomedical engineering, chemical engineering, or a related discipline. The selected individual will be expected to perform research on the interaction of cells, formed elements, and/or proteins with artificial surfaces. The position is designed to encourage interaction between the specific topic of study. For more information please contact: W. M. Reves, Department of Biomedical Engineering, Duke University, Mail Stop 7824, Durham, NC 27710. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION AVAILABLE

For research on biochemical reactions of folate acid and vitamin B12. Emphasis on the effect of thyroid status on folate acid binding proteins and regulation of folate acid metabolism. Ph.D. in nutrition, biochemistry or related field required. Experience in the folate acid field desirable. Salary: $23,196 to $25,332 per year. Starting date: 1 October 1988 or until filled. Send curriculum vitae and names and addresses of three references to: Dr. E. L. R. Stokstad, Department of Nutritional Sciences, University of California, 131 Morgan Hall, Berkeley, CA 94720. The University of California is an Equal Opportunity/Affirmative Action Employer.

DEPARTMENT OF NUTRITION

POSTDOCTORAL POSITION AVAILABLE

For research on immunologic and metabolic responses of rhesus monkeys to dietary calcium. Applicants should have an M.D. or Ph.D. in cell biology or related field. Focus on regulation of hemoglobin synthesis at the cellular level. Experience in hematopoietic growth factors, cell purification, immunology, and/or tissue culture preferred. Send curriculum vitae and three letters of reference to: Dr. A. P. Katoch, Department of Nutrition, College of Medicine, University of New York, New York, NY 10027. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION AVAILABLE

The Department of Molecular and Cell Biology at the University of California, Berkeley invites applications for one postdoctoral position. The position is available immediately and is open to any area of research in molecular and cell biology. Experience in molecular and cell biology is essential. Send curriculum vitae and three letters of reference to: Dr. S. R. P. B. Khosla, Department of Molecular and Cell Biology, University of California, Berkeley, CA 94720. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION AVAILABLE

Ph.D. or M.D. in cell biology or related field. Focus on regulation of hemoglobin synthesis at the cellular level. Experience in hematopoietic growth factors, cell purification, immunology, and/or tissue culture preferred. Send curriculum vitae and three letters of reference to: Dr. A. P. Katoch, Department of Nutrition, College of Medicine, University of New York, New York, NY 10027. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION AVAILABLE

POSTDOCTORAL POSITION available 1 October 1988, for 1 to 3 years, in laboratory studying the molecular and biochemical basis of differentiation and development in filamentous fungi. Research will involve identification and characterization of genes specifically involved in the initial steps of differentiation. Experience in recombinant DNA-molecular biology preferred, and experience with filamentous fungi desirable. Position open until filled. Send curriculum vitae and names of three references to: Dr. Ian K. Ross, Department of Biological Sciences, University of California, Santa Barbara, CA 93106. The University of California is an Equal Opportunity/Affirmative Action Employer. Proof of U.S. citizenship or eligibility for U.S. employment will be required prior to employment (Immigration Reform and Control Act of 1986).

POSTDOCTORAL POSITION to study assembly of enveloped viruses or mechanisms of recognition of viral antigens by cytotoxic T lymphocytes. Projects available offer training opportunity for research experience in the field of immunofluorescence, immunohistochemistry, and/or biophysical techniques to study interactions of viral and host membrane proteins. Send curriculum vitae and names of three references to: Douglas Lyles, Ph.D., Department of Microbiology and Immunology, Bowman Gray School of Medicine of Wake Forest University, Winston-Salem, NC 27103. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION: CELL BIOLOGY

Applications are invited for a postdoctoral fellowship to study the role of plasmogen activators in epidermal function and pathology. Biochemical, molecular biological, and microscopic approaches will be utilized; applicants should have experience in one or more of these areas. Opportunities for interactions with other basic scientists in the university community are available and encouraged.


POSTDOCTORAL POSITIONS—To study the structure, function, and regulation of deoxyribonucleotide metabolizing enzymes in prokaryotic and eukaryotic organisms. Experience in molecular biology and recombinant DNA techniques, including DNA sequencing, isolation of eukaryotic genes, and their expression in plasmid vectors, site-directed mutagenesis and transfection is preferred but not essential. Starting salary $17,720 and up depending on experience. The appointment can be for 2 years or more. Send resume and at least two letters of recommendation to: Dr. Frank Maley, Wadsworth Center for Laboratories and Research, Box 509, Albany, NY 12201. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS. Cancer Research Center of Hawaii: (i) focus on the molecular biology of an inositol phosphate-stimulated protein phosphatase, its role in cell division. (ii) investigate the cellular/biochemical mechanism of Ca++ ions in kinases and phosphatases in cell division and cancer. Experience in cell biology/biochemistry/molecular biology. Salary: $25,388 (minimum). Send curriculum vitae, addresses, and telephone to one of three references to: Dr. Alton L. Boynton, Cancer Research Center, 1236 Laulaha Street, Honolulu, HI 96813.

UNIVERSITY OF MISSISSIPPI
MEDICAL CENTER
JACKSON, MISSISSIPPI

POSTDOCTORAL POSITIONS in enzymology and bioenergetics. Projects include mechanistic studies of catalysis by LDH-decarboxylases enzymes, complex electron transfer of electron transfer proteins, and characterization of membrane-bound redox proteins. Experience in rapid kinetics and protein and membrane biochemistry is desired. These are NIH-funded positions available from one to 5 years. Apply to: Dr. V. L. Davidson, Department of Biochemistry, The University of Mississippi Medical Center, Jackson, MS 39216. Equal Opportunity Employer M/F/H/V.

Research Scientists
- Cellular Immunology
- Cell Biology
- Molecular Biology

ORTHO BIOTECH R&D, a recentlyformed Division of Johnson & Johnson’s R.W. Johnson Pharmaceutical Research Institute, is dedicated to perfecting and creating biologicals for use in modulating the immune response and hemopoiesis. ORTHO BIOTECH has laboratories in Raritan, New Jersey (near Princeton) and in La Jolla, California. We have close working relationships with The Research Institute at Scripps Clinic in La Jolla, and with several University laboratories. Specific areas of active research include: hemopoietic growth factors; immune tolerance; blood coagulation; AIDS; tissue transplantation, repair and regeneration. Current openings are for:

Cellular Immunologists
Opportunities are available for one Associate and one Senior Scientist (PhD). Both require general background in cellular immunology, experience and interest in immune tolerance is desired.

One appointment is planned for Raritan. (Dept. 67A)
One appointment is planned for La Jolla. (Dept. 67B)

Molecular Biologists
Two openings in Raritan. One at the PhD level requires expertise in molecular biology and specific interest in receptor cloning and isolation. (Dept. 67C)

Another appointment will be at the BS/MS level and requires a lab background demonstrating the ability to work independently with PhD level scientists. (Dept. 67D)

Cell Biologists
PhD level opening requires background in hemopoietic biological assays and tissue culture to work in areas of hemopoietic growth factors in Raritan. (Dept. 67E)

Another appointment will be at the PhD level to carry out studies in hemopoiesis and coagulation in La Jolla. (Dept. 67F)

Postdoctorals and Sabbaticals
Postdoctoral fellows and University-based scientists wishing to do a sabbatical year in a stimulating industry-based basic research environment are encouraged to apply for a limited number of these positions. (Dept. 67G).

We offer competitive salaries and the comprehensive benefits you would expect from a Johnson & Johnson Company. We invite you to forward your resume, including salary requirements, to: Mr. Frank Folio, Ortho Pharmaceutical Corporation, Dept. # as indicated above, P.O. Box 300, Raritan, New Jersey 08869-0602.

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Life, Research Opportunities as Information Technologies. Mr. systemically-activedrugs. 

Battelle offers practices. analytical catheter and eases. dogs, swine), pharmacokinetic chemistry, and mechanics, Battelle, of Columbus, Ohio. These opportunities involve working with a talented team of scientists developing therapeutic agents against major diseases. Both positions require a PhD in a relevant field and a minimum of 5 years of experience and excellent communication skills.

SENIOR DRUG METABOLISM SCIENTIST—Relevant degrees include chemistry, biochemistry, or pharmacology. Requires experience with disposition and metabolism in common laboratory animals (rodents, dogs, swine), pharmacokinetic parameter derivation and modeling, catheter implantation, radiotracer technology, autoradiography, and analytical instrumentation. Must be familiar with Good Laboratory Practices. Involves taking a leadership role in drug metabolism and assuming responsibility for study design and interpretation.

SENIOR PULMONARY PHARMACOLOGIST—Relevant degrees include pharmacology, physiology, or biochemistry. Requires experience evaluating the therapy of pulmonary diseases in animal models (mice, dogs, non-human primates) and knowledge of pulmonary mechanics, intranasal or pulmonary drug absorption and distribution, and drug metabolism and clearance in the lung. Must have knowledge of major pulmonary diseases in humans and current therapeutic strategies. Involves development of animal and in vitro models to study new therapeutic agents and the respiratory system as a delivery site for systemically-active drugs.

Battelle offers competitive salaries and comprehensive benefits as well as opportunities for professional growth. Please send your resume to: Mr. Richard W. Shaw, Department N-2, Battelle Columbus Division, 505 King Avenue, Columbus, Ohio 43201-2693. An Equal Opportunity/Affirmative Action Employer M/F/H.

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Information and applications

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Deadline January 17, 1989

SERIAL RESEARCH SCIENTISTS

Metabolism & Pulmonary Pharmacology

Battelle, a world leader in contract research, has two positions available in Columbus, Ohio. These opportunities involve working with a talented team of scientists developing therapeutic agents against major diseases. Both positions require a PhD in a relevant field and a minimum of 5 years of experience and excellent communication skills.

SENIOR DRUG METABOLISM SCIENTIST—Relevant degrees include chemistry, biochemistry, or pharmacology. Requires experience with disposition and metabolism in common laboratory animals (rodents, dogs, swine), pharmacokinetic parameter derivation and modeling, catheter implantation, radiotracer technology, autoradiography, and analytical instrumentation. Must be familiar with Good Laboratory Practices. Involves taking a leadership role in drug metabolism and assuming responsibility for study design and interpretation.

SENIOR PULMONARY PHARMACOLOGIST—Relevant degrees include pharmacology, physiology, or biochemistry. Requires experience evaluating the therapy of pulmonary diseases in animal models (mice, dogs, non-human primates) and knowledge of pulmonary mechanics, intranasal or pulmonary drug absorption and distribution, and drug metabolism and clearance in the lung. Must have knowledge of major pulmonary diseases in humans and current therapeutic strategies. Involves development of animal and in vitro models to study new therapeutic agents and the respiratory system as a delivery site for systemically-active drugs.

Battelle offers competitive salaries and comprehensive benefits as well as opportunities for professional growth. Please send your resume to: Mr. Richard W. Shaw, Department N-2, Battelle Columbus Division, 505 King Avenue, Columbus, Ohio 43201-2693. An Equal Opportunity/Affirmative Action Employer M/F/H.

DIRECTOR, MOLECULAR AND CELLULAR BIOLOGY GRADUATE PROGRAM

University of Maryland, College Park

The University of Maryland is seeking a Director for a newly formed inter-departmental graduate program in Molecular and Cellular Biology. The Director will:

- be a tenured full professor in one of the departments of the College of Life Sciences or the College of Agriculture, and be the Program Director.
- work closely with the chairs of the departments involved in the program and report directly to the Dean of the Colleges of Life Sciences and Agriculture
- represent College Park in a University-wide Molecular and Cellular Biology Graduate Program

The individual selected for Director should demonstrate significant sustained contributions to molecular and/or cellular biology as well as an ability to direct and lead a large inter-departmental program. The individual is expected to maintain his/her own active research program, teach appropriate courses in the program, and foster development of the program.

Applicants for the position should send their curriculum vitae, a statement of research interests and the names and addresses of at least three potential references to: Dr. Arthur N. Poper, Chairman, Search Committee, Molecular and Cellular Biology Program, Department of Zoology, University of Maryland, College Park, MD 20742. (301) 454-3202

Closing date October 17th, or until suitable applicants are found. EOE/AA.

THE UNIVERSITY OF MARYLAND

Research Scientist

Parasitologist

Pfizer Central Research has an excellent career opportunity for a creative scientist at its modern Animal Health Research facility in Terre Haute, Indiana. As a member of a strong multidisciplinary Anticoccidial project team, you will have an opportunity to exercise ingenuity and originality in developing and conducting basic and applied research toward the in vitro evaluation of potential anticoccidial agents.

We are seeking an accomplished scientist who is innovative, enthusiastic, has good communication skills, enjoys working as part of a team and has broad interest and capabilities. You must possess a PhD in Poultry Science, Animal Science or Veterinary Parasitology and have experience with poultry. While postdoctoral experience would be an asset, educational training, educational capabilities and leadership traits are most important.

Pfizer offers an excellent opportunity for professional recognition and career growth. We offer excellent compensation, comprehensive benefits and relocation assistance. Qualified applicants should submit a current resume with the names of three references to: Ms. Christina Batjer, Senior Personnel Supervisor, Pfizer Inc., PO. Box 86, Terre Haute, IN 47806.

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**PROCESS CHEMISTS / ENVIRONMENTAL SCIENTIST**

Sandoz Crop Protection Corporation, a recognized leader in the development of specialized products for agricultural crop protection, is currently seeking 3 key individuals to join our Process Technology and Environmental Sciences Departments. Position openings are for the following qualified candidates:

1. **ORGANIC CHEMIST**
   Primary responsibilities will include assisting in project planning, development of laboratory programs, conducting laboratory experimentation, documenting results and making recommendations based on results. Ph.D. in Organic Chemistry and 0-2 years experience required.

2. **SENIOR PROCESS CHEMIST**
   Responsibilities include the development of new and improved Sandoz processes based on the acquisition of appropriate laboratory data. Requires project leadership, administrative, and excellent laboratory skills. Position involves organizing, conducting, monitoring, reporting, and making recommendations on the results of laboratory process R & D studies. Ph.D. in organic chemistry or equivalent and at least 5 years industrial process R & D experience required.

3. **ENVIRONMENTAL SCIENTIST**
   Working within the Environmental Sciences & Analytical Chemistry Department, the qualified individual will be responsible for conducting environmental fate modeling using computer models and writing study protocols and final reports on fate studies. Position requires a Ph.D. in Environmental Sciences or a related field and at least 3 years experience in the fate and modeling of xenobiotics in the environment.

If you are interested in joining a progressive industry leader which offers growth and leadership potential, as well as an outstanding compensation and benefit package which includes relocation assistance and on-site employee fitness center, please send your resume complete with salary history to: Melanie Marshall-Park, #24, SANDOZ CROP PROTECTION CORP., 1300 E. Touhy, Des Plaines, IL 60018. PLEASE INDICATE ON ENVELOPE WHICH POSITION IS OF INTEREST. PRINCIPALS ONLY PLEASE.

Sandoz is an equal opportunity employer.
POSTDOCTORAL POSITIONS are available in the Department of Biochemistry and Analytical Chemistry at Wright State University School of Medicine and College of Science and Mathematics.

**Cellular Electrophysiologist**

A position is available in the Department of Membrane Biochemistry and Biophysics at Merck Sharp and Dohme Research Laboratories for a researcher in cellular electrophysiology. The department is conducting interdisciplinary studies on the function and pharmacology of ion channels. We are seeking candidates in voltage clamp techniques for characterizing ion transport. A strong background in quantitative data analysis is highly desirable, as evidenced by familiarity with computer programming and the kinetics of chemical reactions. Acceptable candidates will have a Ph.D. as well as postdoctoral experience.

Merck Sharp and Dohme Research Laboratories are located in Rahway, New Jersey approximately 25 miles from New York City. Our salaries, benefits and growth potential are excellent. Interested candidates should submit their resumes with the name of three references and salary requirements to Ms. Jacqueline A. Ebermann, Merck & Co., Inc., PO. Box 2000, Rahway, New Jersey 07065.

Equal Opportunity Employer.

**Biochemistry Department**

Wright State University School of Medicine and College of Science and Mathematics.

**Assistant Professor (Tenure Track)**

**Molecular Endocrinology, Receptor Mechanisms, Growth Factors**

The Department of Biochemistry at Wright State University has a tenure track position open at the assistant professor level. We seek an outstanding individual who has demonstrated the potential to establish an externally funded research program for the study of peptide hormone, receptor, growth factors, or related compounds at the molecular level. This would include but need not be limited to investigations of their biosynthesis, structure, and mechanism of action. Applicants using techniques of molecular genetics or protein structure analyses are preferred. A doctoral degree in biochemistry, or a related field, and postdoctoral training are required. This position is salaried on a 12 months a year basis. Teaching responsibilities will include the endocrinology section of biochemistry courses for graduate (Ph.D. and M.S.) and medical students.

Applicants should submit a curriculum vitae, a detailed research plan, reprints of recent publications, and the names of three or more references to: Dr. Michael Leftak, Chair Department of Biochemistry Search Committee Wright State University, Dayton, Ohio 45435.

Applications received before November 10th will be assured full consideration in the review process, but applications will be accepted until the position is filled.

Wright State University is an affirmative action/equal opportunity employer.

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**Positions Open**

**POSTDOCTORAL POSITION** is available in the Department of Biochemical and Clinical Pharmacology for an individual with a Ph.D. in biochemistry, pharmacology, cell biology, or a related field, to investigate mechanisms of anti-cancer drug action in cultured human tumor cell lines. This work involves ongoing NIH-sponsored project on the role of DNA repair in cellular resistance to anti-tumor alkylating agents. St. Jude Children's Research Hospital is a major pediatric cancer research center and provides opportunities for interaction with research programs in biochemistry, molecular biology, tumor cell biology, virology, and immunology. Postdoctoral training stipends start at $22,000. Send curriculum vitae and names and telephone number of three references to: Dr. Thomas P. Brent, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38101. An Equal Opportunity/Affirmative Action Employer.

**GLADSTONE FOUNDATION LABORATORIES FOR CARDIOVASCULAR DISEASE UNIVERSITY OF CALIFORNIA, SAN FRANCISCO**

The Gladstone Laboratories are involved in studying the cellular and molecular biology of lipoprotein metabolism and atherosclerosis. **POSTDOCTORAL POSITIONS** are available in the following areas: protein physical biochemistry, site-directed mutagenesis, mouse transgenics, regulation of gene expression, and regulation of intracerebral cholesterol metabolism. Send curriculum vitae to: Personnel, Gladstone Foundation Laboratories, University of California, San Francisco, P.O. Box 40068, San Francisco, CA 94140-0068.

**POSTDOCTORAL POSITIONS** in immunology/endo-ocology in the Division of Neurology, Harvard Medical School. A multidisciplinary approach is used to understand and manipulate the immune response to neural antigens. Focus is on neural tumors and autoimmune disorders. Send resume with names of references to: Dr. Lois Lampson, Center for Neurologic Diseases, Biosciences Research Building, Brigham and Women's Hospital, Boston, MA 02115. An Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS** presently available. (i) VLDL assembly/secretion: expression of fusion protein cDNA constructs in genetically defined tissue culture cells, and (ii) hepatic cholesterol metabolism: tracing the uptake, intracellular transport and metabolism of VLDL, cholesterol-rich lipoproteins using GC mass spectroscopy. Experience in molecular and cell biology, biochemistry desired. Competence in powder skiing helpful, but not required. Send curriculum vitae to: Dr. Roger Davis, Molecular and Cell Biology Unit, Box B158, UCHSC, 4200 East 9th Avenue, Denver, CO 80262. The University of Colorado Health Sciences Center is an Equal Employment Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITIONS** available immediately for antigenic characterization of an equine herpesvirus-1 (EHV-1) glycoprotein. The positions are in an established laboratory investigating the molecular structure of the B- and T-cell epitopes of EHV-1 antigens. Experience in hybridoma technology, immunoblots, ELISA, T-cell cultures, and oligopeptides highly desirable. Salary: $25,000. Send curriculum vitae, including references to: Dr. George Allen, Department of Veterinary Medicine, School of Veterinary Medicine, University of Kentucky, Lexington, KY 40546-0099. An Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITIONS** available immediately to perform studies of structural and functional correlations of retroviral gene products by site-specific mutagenesis. Systems being studied include murine leukemia viruses, spleen focus-forming viruses, and HIV. A molecular genetic background is essential, with experience in gene cloning and in vitro mutagenesis preferred. Salary will be commensurate with experience. Send curriculum vitae and three letters of recommendation to: Dr. Abraham Pinter, Department of Retroviral Biology, Public Health Research Institute, 455 First Avenue, New York, NY 10016.

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**Scientist**

**Protein Analysis/Characterization**

Genentech, Inc., a leader in the field of biotechnology, is seeking an individual to make innovative and original contributions performing protein analysis and characterization in the area of protein metabolism and pharmacokinetics. Collaborating with other Scientists, you will define the disposition of potential drug candidates and represent the Pharmacological Sciences Department on future development project teams.

Requirements include a Ph.D. in Biochemistry, Pharmacology or Analytical Chemistry and a minimum of a 3-year postdoctoral fellowship or equivalent experience in the industry. Extensive hands-on chromatography experience is also required as is experience in analytical methods development and protein isolation and characterization techniques. Familiarity with sequencing techniques and mass spectrometry is desirable.

Genentech, Inc. offers an excellent salary and benefits package coupled with the opportunity to make a significant contribution to our organization. For consideration, please send your resume to: Eric Manikuta, Human Resources Dept., Genentech, Inc., 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support affirmative action and equal employment opportunity. Women and minorities are encouraged to apply.

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MANAGER
REGULATORY AFFAIRS

G.D. Searle, an internationally respected Fortune 500 manufacturer of quality pharmaceutical products currently seeks a regulatory affairs professional for our Research and Development Division in the north Chicago area.

Successful candidate will handle the planning and preparation of submissions (INDs, NDAs, amendments, annual reports), FDA liaison activity, and other regulatory aspects of new drug development. Specifically, incumbent will assist in the preparation of regulatory plans and clinical trial applications and provide regulatory leadership on new product project teams. We seek an M.D. or a Ph.D. in a scientific discipline with approximately 5 years experience in a pharmaceutical or related industry, with exposure to Regulatory Affairs.

We offer a rewarding, highly professional environment, as well as exceptional compensation and benefits. For consideration, send resume in confidence with salary history to: G.D. Searle, Human Resources Dept. HY21, 4901 Searle Parkway, Skokie, IL 60077. Equal Opportunity Employer M/F.

RESEARCH ASSOCIATE

At Cetus Corporation, we are committed to maintaining our leading role in the research and development of biotechnology-based products.

We are currently seeking an experienced Research Associate to conduct experiments on the characterization and production of factors produced by the immune system. You will develop biological assays and perform biological studies to characterize function, receptors, and mechanism of action.

To qualify for this position, you must have a Master's degree in immunology/cell biology or related areas, with hands-on experience in immunology, biochemistry and cell biology and a minimum of 5 years' related experience. Good oral and written communication skills, along with computer proficiency, are essential.

For immediate consideration, please send your C.V. to:

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

We are an equal opportunity/affirmative action employer.

NEUROSCIENCE RESEARCH

Alzheimers Neurotrophics/Toxins Aging Stroke

CORTEX Pharmaceuticals, Inc. is a new research and development company uniquely focusing on the specific neurodegenerative disorders and memory impairments associated with elderly patients. Excellent funding, exciting research programs, experienced and successful executives, close university affiliations and a strong and dedicated Board of Directors make employment at CORTEX an attractive career opportunity.

Our initial focus involves applying high tech neuroscience methods to develop early diagnostics and treatments for Alzheimer's disease, multi-infarct dementia and stroke.

CORTEX is looking for productive scientists who share our enthusiasm for studying and correcting the serious medical problems facing an aging society. Key research positions currently available require the following training and experience:

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Send two copies of vita and letter of interest to:

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Attn: Dept. LGGP
POSITIONS OPEN

POSTDOCTORAL POSITIONS (two) available immediately to study the mechanism and energetics of enzymatic catalysis, employing the novel neutron technique. [J. Biol. Chem. 265, 11704-11710 (1990) and biophysical approaches (Advances in Enzymology, 61, 1-46 (1988)]. Experience or interest in the areas of structure and function is desired. Salary: $17,000 to $23,000 per year. Send curriculum vitae to or call: Dr. Harvey F. Fisher, VA Medical Center, 4801 Linwood Boulevard, Kansas City, MO 64108. (Telephone: 816-470-4855. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS—CELL SIGNALING. Three collaborating laboratories have positions for the study of second messenger systems in various cell systems, including mammalian and non-mammalian cells (E. W. Westad); ATP, ADP, AMP and ADP-ribosylation of cAMP and Ca2+ in vascular endothelial and smooth muscle cells (L. L. Slakey); and EGFR receptor binding and signalling in human A-431 and fibroblast cells (D. J. Gross) are among the systems of interest. Techniques include quantitative optical microscopy (CCD and laser scan foci imaging), novel approaches to signalling kinetics, as well as standard biochemical measurements. Salaries start at $21,000. Send resume and names of three references to: Dr. D. J. Gross, Department of Biochemistry and Program in Molecular and Cellular Biology, University of Massachusetts, Amherst, MA 01003. Deadline for applications is 1 November 1990. All suitable candidates have been found. Affirmative Action/Acronomy Employer.

POSTDOCTORAL RESEARCH ASSOCIATE. Position available at East Carolina University to study the molecular biology of drug resistance. Project will employ both in vitro and in vivo methods. Opportunity to study drug resistance occurring in human tumor cells at both the gene and sub-gene levels. Requires motivated individual with background in molecular and cell biological research. Federal law requires proper documentation of identity and employability at the time of employment. Interested and qualified applicants are invited to submit applications. Please send curriculum vitae and names of three references by 31 October 1990. Salary will be commensurate with experience. Send applications to: Dr. Lynda T. Boyer, Department of Pharmacology, East Carolina University, Greenville, NC 27834. An Equal Opportunity/Acronomy Employer.

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positions open

research scientist/fellow in endocrinology. require M.D. or M.S. in biochemistry with 3 years of experience or 3-year ABIM accredited residency in internal medicine with Board eligibility in endocrinology and metabolism to conduct advanced research on the function of estrogen receptors. Five-year, 40-hour week. $27,996 per year. Send resume to: The University of Pennsylvania School of Medicine, Attention: Endocrinology Section, 531 Johnson Pavilion, Philadelphia, PA 19104.

sensory neurophysiologist: tenure-track possibility for position available at assistant professor level. should be prepared to collaborate within the Microsurgical Research Center. expertise required to characterize electrophysiologically the properties of central axons which have regenerated along peripheral nerve implants. Preference given to applicants experienced in spinal cord neurophysiology and tract-tracing and histological techniques. Please send curriculum vitae with three letters of recommendation to: Dr. Julia K. Terzis, Microsurgical Research Center, Eastern Virginia Medical School, P.O. Box 1980, Norfolk, VA 23501.

shaw distinguished professor of biological sciences

The Department of Biological Sciences and the Center for Great Lakes Studies of the University of Wisconsin-Milwaukee are seeking to appoint jointly a second Shaw Distinguished Professor.

The successful candidate should have an outstanding research record involving a molecular approach to the investigation of environmental questions. The research should complement ongoing studies in molecular biology and aquatic ecology.

Qualified persons interested in this position are invited to submit a detailed curriculum vitae to:

Dr. Kenneth Nealon
Shaw Distinguished Professor of Biological Sciences
Search Committee for Shaw Distinguished Professor
Department of Biological Sciences
University of Wisconsin-Milwaukee
P.O. Box 413
Milwaukee, WI 53201

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

vector-borne bacterial diseases

The Centers for Disease Control (CDC) is developing a new program in vector-borne bacterial zoonoses at the Division of Vector-Borne Diseases in Ft. Collins, Colorado. Positions are open for Chief, Vector-Zoonoses Branch, Chief, Lyme Disease Section, and Research Microbiologist, Molecular Biology Section. Applications are invited from persons holding medical, veterinary, or other doctorate degrees with experience and demonstrated expertise in epidemiology, clinical microbiology, molecular bacteriology, medical entomology or ecology. The Branch is responsible for surveillance of Lyme disease and related borrelioses, plague and tularemia and will develop research programs in the areas of ecology, control measures, clinical microbiology and molecular biology. The Lyme Disease Section is responsible for surveillance of Lyme and related borrelioses, and for implementing research programs toward prevention and control of these diseases. The Molecular Biology Section is responsible for design and implementation of research on the antigenic structure, genetics, replication, virulence factors, and pathogenesis of Borrelia and on development of improved diagnostic methods. The Branch Chief position is available at a GM 14/15 level (salary range $46,679 to $72,600, with an additional comparability allowance for physicians). The Lyme Disease Section Chief is available at a GM 13/14 level (salary range $39,501 to $67,500 depending on training and experience; with an additional comparability allowance for physicians). Both positions may be filled at equivalent levels with nominations in the U.S. Public Health Service. The research microbiologist position is available at a GS 12/13 level (salary range $33,218 to $51,354). Curriculum vitae and copies of publications should accompany applications to be sent to: The Director, DBVM, CDC, P.O. Box 2087, Ft. Collins, CO 80522. Deadline for receipt of completed applications is 14 October 1988. CDC is an Equal Employment Opportunity/Affirmative Action Employer.

vice president

Association of Universities for Research in Astronomy, Inc.

Expressions of interest are solicited for the position of Vice President of the Association of Universities for Research in Astronomy, Inc. (AURA). Located in Washington, D.C., AURA is a consortium of 20 universities which manages the National Optical Astronomy Observatories (NOAO) in Tucson, Arizona, for the National Science Foundation, and the Space Science Telescope Institute (STScI) in Baltimore, Maryland, for the National Aeronautics and Space Administration.

The Vice President's functions include interactions with the AURA Board and its committees, professional societies, AURA member universities, industry, media, and funding agencies in carrying out assigned duties in technical management, administration, contract monitoring, and science matters. The Vice President will also interact with the management of NOAO and STScI on administrative and programmatic matters. Other duties of the Vice President will include the assessment and development of AURA initiatives to strengthen U.S. astronomy. Finally, the Vice President, as other officers of the corporation, will be expected to act for the President when so authorized.

The Vice President must have a degree in astronomy or in a related physical science; an advanced degree is preferred. Training or experience is also desired in administrative areas such as contracts, personnel, Federal regulations, compensation, and in communications with media, educated laymen, and the public.

The successful candidate will have: extensive experience in science policy and federal science issues; experience in dealing with senior scientists, elected and appointed Federal officials, university administrators, and foreign dignitaries; and experience in presenting science issues to educated lay audiences. He/she should be able to operate on own initiative, be innovative, have strong writing, analytical, and communication skills; and be able to deal with highly complex priorities.

Nominations or expressions of interest for this position are desired by September 30, 1988, but will be accepted until October 31, 1988; submissions should be sent to:

Dr. Robert Dorfman, Chairman
Search Committee
AURA, Inc.
Suite 701
1625 Massachusetts Avenue, N.W.
Washington, D.C. 20036

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research associates

pharmacological & biochemical sciences

fortune 250 Allergan, Inc. is an international leader in eye and skin care. We are currently seeking applicants for the following positions:

biochemistry research associate—the successful candidate will have experience in in vitro biochemical techniques, including enzyme analysis and isolation and quantification of metabolic intermediates. Knowledge of HFLC, radioimmunoassay and/or cell culture techniques is desirable. Responsibilities include methods development and evaluation of novel compounds for the treatment of ocular and dermatologic inflammation. The ability to function within a highly motivated research team is a necessity.

pharmacological research associate—the successful candidate will have experience in in vivo pharmacological techniques, knowledge of radioligand binding or second messenger assays would be an additional advantage. Responsibilities will include methods development and interaction with an inter-disciplinary team committed to studying receptor pharmacology and discovery of novel therapeutics.

cardiocvascular/ophthalmic research associate—the successful candidate would be experienced in cardiovascular research technique. Familiarity with ophthalmological techniques is desirable, but not essential. As part of an inter-disciplinary team, responsibilities will include evaluation of the cardiovascular and ophthalmological pharmacology of novel agents for the treatment of glaucoma.

A.B.S. or M.S. in biochemistry, pharmacology, or physiology and at least one year of relevant experience are required.

Allergan offers an excellent salary and benefits package. For immediate consideration please send your resume to: Allergan, Inc., Human Resources, Dept. JS-1000-8, 2565 Dupont Drive, Irvine, CA 92715. Equal Opportunity Employer M/F/H/V.

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POSITIONS OPEN

Pierce, an expanding international biotechnology company focusing on the immunological field, has an immediate opening for a TECHNICAL ASSISTANCE Department. The successful candidate will be responsible for helping solve customer problems, writing technical correspondence, and providing laboratory work. Requirements include excellent communication skills, both written and oral, and diverse laboratory skills. A Ph.D. in immunology, or related science, is preferred, but will consider a M.S. with proven skills and abilities. Please send curriculum vitae and three letters of reference by 23 September 1988 to:

Human Resource Manager
Pierce Chemical Company
P.O. Box 117
Rockford, IL 61105
Equal Opportunity Employer

AWARDS

THE HEISER PROGRAM FOR RESEARCH IN LEPROSY

Beginning POSTDOCTORAL RESEARCH FELLOWSHIPS, RESEARCH FELLOWS, AND VISITING RESEARCH AWARDS available in amounts up to $21,000 per year, plus other allowances. Applicants should have M.D., M.D./Ph.D., or Ph.D. in basic science. Applications by 1 February 1989, for awards to be activated June to December 1989. For information, write or call:
The Heiser Program
450 East 63 Street
New York, NY 10021
Telephone: 212-751-6233

FELLOWSHIPS

FELLOWSHIP IN REPRODUCTIVE GENETICS

The Division of Reproductive Genetics, Department of Obstetrics and Gynecology at The University of Tennessee, Memphis, is offering a two- or 3-year fellowship in reproductive genetics beginning July 1989. The fellowship program is approved by the American Board of Medical Genetics. Applicants must have completed a residency in obstetrics and gynecology, and eligible for medical licensure in Tennessee is required. The fellowship is designed to provide a comprehensive experience in clinical genetics (counseling, prenatal diagnosis, and genetic counseling), and molecular genetics, specifically current techniques in molecular characterization of genetic diseases. Applications should be submitted to: Dr. Robert E. Morabito, Director, Division of Reproductive Genetics, University of Tennessee, Memphis/University Physicians, 2195 Sycamore View Avenue, Memphis TN 38163. The University of Tennessee, Memphis/University Physicians Foundation, Inc. is an Affirmative Action/Equal Opportunity Employer.

1989 MARKEY FELLOWSHIP PROGRAM:

Applications are invited from investigators in the biological and biomedical sciences for summer research fellowships at the Mount Desert Island Biological Laboratory, an internationally renowned institute for comparative physiology and marine science. Using vertebrate and invertebrate fauna from the Gulf of Maine, Laboratory researchers pursue diverse interests including the comparative physiology of the kidney, cell membrane transport, the mechanisms of cell division, and cellular and molecular aspects of environmental toxicology. Preference is given to applicants who are several years beyond the completion of the doctorate, who demonstrate evidence of an independent research program, and who are still in relatively early years of research career. The fellowships, sponsored by the Lucille P. Markey Trust, include laboratory space, housing, supplies and equipment, and other allowances, depending on individual needs. Applications and instructions for the preparation of brief proposals may be obtained by contacting: Dr. Donald A. McCormick, Associate Director, Mount Desert Island Biological Laboratory, Dept. S, Salsbury Cove, ME 04672. Telephone: 207-288-3605. The deadline for completed applications is 9 January 1989.

STAFF FELLOWSHIPS: The Cincinnati Research Laboratories Division of Microbiology, Center for Food Safety and Applied Nutrition, FDA is seeking applicants to conduct research on the effects of nutritional, thermal and oxidative stress on pathogenesis of foodborne microorganisms. Candidates must have a strong background in microbiology/molecular biology, biochemistry or closely related disciplines, with no more than 7 years of research at the academic level. Permanent status as U.S. citizen or alien eligible for citizenship within 4 years. The Staff Fellowship is an exempt appointment in the Federal Service. Salary ($37,716 to $42,135) is based on qualifications. Interested applicants should send curriculum vitae and bibliography to: D. B. Shah, Ph.D., FDA, 1090 Tusculum Avenue, Cincinnati, OH 45226. FDA is an Equal Opportunity Employer.

FELLOWSHIPS

THE BLAUSTEIN INTERNATIONAL CENTER FOR DESERT STUDIES

Postdoctoral fellowships are available for basic or applied research in the physical, life and social sciences in and around the desert. Deadline for application is 15 December 1988. Send curriculum vitae, letter describing research interests, and three letters of reference to: Chairman, Postdoctoral Fellowship Committee, The Jacob Blaustein Institute for Desert Research, Ben-Gurion University of the Negev, Sede Boqer Campus, 84993 Israel. Fax: 972-87-73631. Tel: 5280 DIRBG IL.

THE PRINCE OF WALES CHILDREN'S HOSPITAL, RANDWICK

(Training Hospital of the University of New South Wales)
RESEARCH FELLOWSHIP IN CLINICAL GENETICS

The Prince of Wales Children's Hospital has recently received an endowment from the Arthur T. and Renee George Foundation to establish a Genetic Treatment Research Unit. This Unit has also been supported financially by the Minister for Health. The Hospital has a large service for the management of thalassemia and haemoglobinopathies, cystic fibrosis, Duchenne muscular dystrophy, and an establishment service for clinical genetics and cytogenetics.

Technology is advancing rapidly in the field of gene manipulation; it is envisaged that the successful applicant will train in this technology with the establishment of the Research Unit at The Prince of Wales Children's Hospital.

Applicants should have appropriate qualifications in biochemistry and/or biology, and preferably completed one doctorate.

The appointee will be expected to undertake 2 years of training at an appropriate institute, and will take up a position within The Prince of Wales Children's Hospital on completion of this training.

Enquiries: Dr. V. A. Berdoukas, Staff Paediatrician, Telephone: (02)-399-4568.
Salary: To be negotiated.
Applications must be in writing, containing full details of qualifications and experience, together with the names and addresses of three referees.

Please forward to:

The Staff Manager
The Prince of Wales Hospital Administrative Centre
Cnr. High and Regent Streets
Randwick, NSW. 2031.

MARKETPLACE

ANTI-VIRAL DRUG TESTING FOR HIV

Pan-Data Systems, Inc. (PDS), offers assistance in drug testing using freshly isolated monocyte/macrophage cultures and PHA-stimulated leukocytes.

Contact Dr. John Dahlberg, Director of Research, for more information:
3 Taft Court, Rockville, Md. 20850
(301) 294-2297 fax (8095)
1 (800) 543-8059

Custom DNA Purified and Delivered in 48 hours.$10.00 a base for the first 15 bases, $7.50 for each additional base. No additional charges.

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GLAXO INC. ANNOUNCES:

CARDIOVASCULAR DISCOVERY GRANTS

Glaxo Inc., a research-based pharmaceutical company whose purpose is the discovery, development, manufacture, and marketing of safe, effective medicines of the highest quality, is initiating the Cardiovascular Discovery Grants program to support scientists who are actively engaged in research that may ultimately lead to new cardiovascular therapeutic agents.

Up to 20 Grants will be awarded in 1989. Each Grant will be funded up to a maximum of $250,000 annually for 3 years.

The program is open to scientists and physicians involved in cardiovascular research that may lead to the discovery of novel therapeutic agents for the treatment or prevention of cardiovascular disorders.

Selection of awardees will be based upon the recommendations of an independent Cardiovascular Advisory Board. Members include:

- Nicolas G. Bazan, M.D., Ph.D.
- Peter B. Corr, Ph.D.
- James M. Downey, Ph.D.
- Joseph Loscalzo, M.D., Ph.D.
- Alan S. Nies, M.D.
- Raymond L. Woosley, M.D., Ph.D.

- Louisiana State University Medical Center
- Washington University School of Medicine
- University of South Alabama College of Medicine
- Harvard Medical School
- University of Colorado Health Science Center
- Georgetown University School of Medicine

Submissions must be received by January 1, 1989.

Inquiries and requests for applications should be directed as follows:

Glaxo Cardiovascular Discovery Grants
Room H216-S
Glaxo Inc.
Five Moore Drive
Research Triangle Park, NC 27709
(919) 248-2714
Whether you're doing environmental, pharmaceutical, life science, food or drug analysis, HP's new Particle Beam LC/MS (PB/LC/MS) system can really expand your analytical capabilities. That's because it gives you true, reproducible EI spectra—in addition to Cl spectra. And it's just as reliable—and about as easy to use—as GC/MS. Even for neophytes!

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Keeps all your options open.

Available as a complete system or as add-ons, the HP PB/LC/MS consists of an HP modular or integrated LC, an HP MS data system and an HP 5988A mass spectrometer equipped with the new HP PB interface. You can add all the most useful MS capabilities, too. Things like high mass, thermospray, NCI, FAB, DIP and much more. Add an HP GC and interface and you've got a versatile PB/LC/GC/MS system that can be switched between GC/MS and LC/MS in seconds.

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In numerous customer surveys—including Analytical Chemistry's—HP is consistently top rated for service, support, reliability and technological leadership. Another thing, HP is the only instrument vendor to make and service all system components. Not only LCs and MSs, but GCs and data systems, too. So one phone call is all it takes to summon support for your entire system.

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