Personnel Placement

SCIENCE publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing; no abbreviations. Deadline for ads must be at least 2 weeks before date of issue in which ad appears. Also, personnel ads must state that the advertiser does not discriminate among applicants on the bases of race, sex, religion, age, color, national origin, or sexual preference. SCIENCE reserves the right, in its discretion, to decline to publish any submitted ads.

LINE CLASSIFIED ADVERTISING DEADLINES: Thursday, 10 a.m., 2 weeks prior to issue date (mailed on issue date). For deadlines for display advertising, please contact Scienline Associates.

POSITIONS WANTED: 40¢ per word, plus $4 for use of box number, per week. $10 minimum, per week. Prepayment required. This rate is available only to individuals seeking jobs.

LINE CLASSIFIED (POSITIONS OPEN, COURSES, FELLOWSHIPS, MARKETPLACE, and so forth) $35.00 per line, per week. (minimum charge covers one inch on a single column; one inch equals 10 lines of 52 characters and spaces per line). No charge for use of box number. No agency commission for ads less than 4 inches. No cash in advance. Prepayment required for all foreign ads. Purchase orders and/or credit card including billing address required for all other advertising.

To ESTIMATE ad cost: Structure ad copy on a separate page, on lines of 52 characters or less. Include any desired heading. Each line of heading, and/or extra line spaces, and all partial lines (including centered reply information) are counted as full lines. Ad titles located within the text are printed in boldface case and are only 52 characters per line. In estimating the cost, multiply total lines × $35.00 = approximate cost of ad. (This is an approximate cost ONLY: Allow for variation between estimated lines and actual typeset lines and the resulting final cost. Purchase orders must allow for some degree of flexibility and/or adjustment.)

CANCELLATION POLICY: NOTE: Cancellation 2 weeks ahead after Thursday. Two weeks prior to issue date incur a 10% production charge. Final deadline for cancellations is 12 p.m. Tuesday, one week prior to issue date. Cancellations must be in writing.

Send copy for all Position WANTED ads and Line Classified ads less than 1 1/2 page in size (3 lines) to:

SCIENCE Classified Advertising
1333 H Street, NW, Room 940
Washington, DC 20005
Telephone: 202-326-6655

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

Schreager Associates, Inc.
1918 Broadway, New York, New York 10023
Telephone: 212-750-1000

Blind ad replies should be addressed as follows:

Box (give number) SCIENCE
1333 H Street, NW
Washington, DC 20005

POSITIONS WANTED

Biochemistry, M.S. Protein purification, fluorescence techniques, HPLC, lab management, teaching. Mid-South, industrial preferred. Box 51, SCIENCE.

Biochemistry Technology, B.S., Research Associate, 1981. Seventeen years of experience (research, industry) in a variety of biochemical, clinical, ELISA immuno- logical assays, which involved using radiometric techniques, paper chromatography, measure enzyme activi ties, various colorimetric techniques for locating, quantitating protein, enzymes, Antibodies. Purification and char acterization of protein, enzymes. Experienced with gel filtration, ion-exchange, affinity chromatography, gel electrophoresis, reverse-phase HPLC, dialysis. Also recombinant membrane, membrane preparation, bacteria culture. Excellent skills. Seeks research/academic/industrial or medical laboratory speaking English in Canada. Box 58, SCIENCE.

Cardiovascular Physiologist (Ph.D., 1981). Research experience in canine endotoxin shock, rat myocardial ischemia/reperfusion, and effect on isolated canine cardiac sarcoplasmic reticulum and ar- rhhythmogenesis in isolated rat myocardium. Large, small animal research. Hemodynamics measurements. Two years of undergraduate, 3 years of graduate teaching. Eleven refereed manuscripts, six chapters. Successful grant writer. Good scientific editor. Good speaker. Excellent interpersonal skills. Seeking research position in competitive academic or industrial position in Richmond/Charlottesville, VA. Box 56, SCIENCE.

Cellular Enzymologist/Toxicologist, M.D., Ph.D. with recent extensive involvement in the development of new technologies for in vitro drug toxicity and sensitivity testing, possession of several protectable patents, seeks Senior Research Scientist position and patents promotion in pharmaceutical industry, medical schools or other appropriate research institutions. Box 57, SCIENCE.

Cytogeneticist, Ph.D. Directs full-service medical cyto- genetics laboratory; extensive experience in human and mammalian cytogenetic analysis. Research interests: tu mor cytogenetics, chromosome and DNA damage. Seeks position in research and medical cytogenetic laboratory. Box 58, SCIENCE.

D.P.M., Four years of clinical experience. Strong biome- chanical background in locomotion. Seeks research/teaching position in biomedicine, cell biology, or pharmacology. New York, New Jersey vicinity. Box 59, SCIENCE.

Foreign Biochemist. Twenty-two years of clinical and basic biochemistry—experienced visiting associate profes sor, various skilled advanced laboratory techniques. Pub- lications in biochemistry, clinical chemistry, lipids, lipoproteins. 1519 1/2 Blair Avenue, St. Paul, MN 55104.


Ph.D. in nutrition (1986). Two years of postdoctoral experience. Research experience in molecular biology, enzymology and protein purification. Seeking academic or industry research opportunities. Box 54, SCIENCE.

Physiologist, M.D. Research experience in nephrophys- iology (hemodynamics, endocrinology). Clinical experi- ence in general internal medicine, training experience in medical physiology. Box 31, SCIENCE.

ACADEMIC POSITION

The University of California, Davis, School of Medi- cine is recruiting for a full-time faculty member to be jointly appointed 50% in the Department of Pharmacol- ogy and 50% in the Department of Internal Medicine/ Cardiology. Appointment will be at the assistant or associate professor level commensurate with qualifica- tions and experience. Candidates must have a Ph.D. or M.D./Ph.D. M.D. applicants must be Board-certified in internal medicine in at least one of the following areas: central neural control mechanisms, neu- ropathology, neuropharmacology or neuroanatomy with reference to autonomic control mechanisms regular- izing the body. Research programs should ideally include teaching, research and, if applicable, clinical rota- tions in cardiology. Please submit a letter outlining research and teaching background, and identify current research interests along with current curriculum vitae and the names of three references to: Larry G. Stark, Ph.D., Professor and Chair, Department of Pharmacology, School of Medicine, University of California, Davis, CA 95616. Applications will not be accepted after 31 August 1985. A University of California is an Affirmative Action/ Equal Opportunity Employer.

QUACULTURIST—SHELLFISH position is available immediately. Ongoing program in aquaculture including studies of disease-resistant oysters. Position includes techniques, facility upgrade and liaison with shellfish industry. Salary commensurate with experience. Send three references to three references to: Dr. John N. Krause, Rutgers University, P.O. Box 687, Port Norris, NJ 08349.

Pulmonary Division, University of Pittsburgh School of Medicine. Tenure/tenure-track position at the ASSOCIATE PROFESSOR level for Ph.D. with a strong background in cellular physiology and biochemistry. The candidate would be expected to pur- sue an independent research program and collaborate with M.D.'s interested in the role of soluble media- tors of inflammation elaborated by neutrophils, macro- phages and lymphocytes in a variety of pulmonary lung diseases. Experience in tissue culture, ultrastructure, and lipid and protein identification/purification is desired. Applicants should submit curriculum vitae, a statement of research interests, and three letters of reference to: James Dauber, M.D., Pulmonary Medicine, 440 Seacle Hall, Pittsburgh, PA 15261.

An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF ONCOLOGY

Applications are invited for a position as assistant professor of pathology at the University of Wisconsin, Madison. We are seeking a scientist who is intellectually interested in cancer research. We would expect for example of the following areas: (i) activation of ornithine decarboxylase; (ii) mechanisms of multistage carcinogenesis; (iii) viral oncogenesis; (iv) cellular and molecular regulation of the growth and differentiation of normal and neoplastic cells; (v) viruses associated with human cancers. Review of applications will begin on 1 June 1988, but applications will be accepted until the position has been filled. Applicants should submit curriculum vitae, a list of publications, and a brief statement of both their prior research accomplishments and, most impor- tantly, their future research objectives. They should also request that at least three letters of recommendation be sent to: Dr. Henry C. Piston, Jr., Department of Oncology, McArdle Laboratory for Cancer Research, University of Wisconsin, Madison, 480 North Randall Avenue, Madison, WI 53706. The University of Wisconsin is an Equal Opportunity/ Affirmative Action Employer.

ASSISTANT TO FULL PROFESSOR

The Department of Pharmacology at Case Western Reserve University has positions available for two faculty members, one in either the (a) protein chemistry or (b) immunology area. Candidates must have outstanding research credentials in defining actions of chemical agents at the molecular level. Re- search areas involving molecular endocrinology, molecu- lar genetics, drug metabolism, and/or cellular signaling by growth factors, neurotransmitters or second messen- gers are of particular interest. Application letters together with curriculum vitae, statement of research interests, and the names of three referees should be sent to: Dr. Leslie T. Webster, Jr., Department of Pharmacology, School of Medicine, Case Western Reserve University, Cleveland, OH 44106. Telephone: 216-368- 3394. An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

ASSOCIATE RESEARCH SCIENTIST: Postdoc- toral position immediately available for individual to work in the laboratory of Dr. Peter Elbash. Candidate should have solid training and proven experience in recombinant DNA-technology and should wish to join productive program concerned with the molecular bio- logy of a potent membrane-perturbing bacterial protein, purified from neutrophils, that is specific for Gram- negative bacteria. This protein is comprised of many phospholipids A2. The structural basis of this selectivity is being unraveled. Excellent salary and benefits. Interest- ing science. Send curriculum vitae, names, and three letters of reference to: Joan Harmon, Personnel Department, New York University Medical Center, 550 First Avenue, New York, NY 10016. Equal Opportunity Employer NYU.
DESER T RESEARCH INSTITUTE
VICE PRESIDENT FOR RESEARCH

The Desert Research Institute (DRI) is the major research division of the University of Nevada System. The Institute is dedicated to the conduct of regional, national, and international programs of basic and applied research related to statewide natural resources problems and to Nevada's economic development. DRI has five major research centers located in four statewide research facilities that house our 250 research faculty and staff. The Institute has a $14 million budget which has been growing at about 12% per year and it draws its funding equally from government and private Industry. The State of Nevada provides funding for administration of the Institute.

The Vice President for Research is the senior research administrator for the Desert Research Institute and reports directly to the President. The Vice President for Research provides leadership to the Institute in the acquisition of major new science and engineering research programs at the national and international levels; coordinates the development of long-range plans for expansion of the research base of the Institute including staffing, facilities and equipment; and coordinates Institute-wide research programs of major scope and complexity. The Vice President for Research will work closely with the UNS Vice Chancellor for Academic Affairs, academic and research vice presidents of the two Universities, and with the administrative officers of their Graduate Schools in promoting the acquisition and development of research throughout the University System. The Vice President for Research will provide administrative support to personnel matters related to the development of the Institute's research faculty and staff.

Qualifications include a doctorate degree in a science, engineering or a closely related field. Experience should include at least five years in the actual conduct of management of scientific or engineering research programs, preferably in a not-for-profit institution. The successful candidate will be recognized at the national or international level for contributions to science or engineering. The successful candidate should have demonstrated ability to work effectively with scientists and engineers in managing sophisticated and complex programs of scientific research, in the successful acquisition of government and private industrial funding, and in the ability to develop long-range plans to guide development of research programs.

Salary is competitive, depending upon qualifications and experience. The Vice President for Research will have statewide responsibilities for the Institute and will be located at DRI's Science Center in Las Vegas. Applications must be received by June 30, 1988. To apply, send letter of application, current resume, and list of references to: Chairperson, Search Committee, Vice President for Research, Desert Research Institute, University of Nevada System, P.O. Box 60220, Reno, Nevada 89506.

The Desert Research Institute is an Affirmative Action/Equal Opportunity Employer.

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RESEARCH FELLOW
$28,029-$41,861
DIVISION OF ATMOSPHERIC RESEARCH,
ASPENDALE, VICTORIA

FIELD: Numerical modelling of severe storms precipitation.

THE DIVISION: The Division of Atmospheric Research maintains a broadly-based research program in mesoscale meteorology involving field experiments, laboratory experiments and theoretical and numerical modelling studies. The present focus of this work is shifting towards mesoscale storm systems and precipitation processes. Other research in the Division is concerned with remote sensing, global atmospheric change climate dynamics and air pollution.

The Division has excellent computing facilities, with access to a CYBER 205 through CSIRONET and a number of smaller computers on site, including a micro-VAX 2 for post-processing of model output.

THE JOB: Using numerical models, the appointee will undertake research into the atmosphere studying those factors significantly influencing precipitation from mesoscale storm systems. The successful applicant will be expected to interact fully with other scientists in the program, particularly through the use of extensive field data sets for model validation.

THE PERSON: Applicants should have a Ph.D. or equivalent qualification in mathematics, physics or meteorology, with demonstrated skills in atmospheric numerical modelling. A sound knowledge of mesoscale dynamics and precipitation processes is desirable.

CONDITIONS: Appointment will be for a term of 3 years, with Australian Government superannuation benefits available.

MORE INFORMATION: Intending applicants are invited to telephone Ms. Michelle Laricchia on (03) 596 7604 for a copy of the detailed job description and selection criteria. Further information on the position may be obtained from Dr. Brian Sawford on (03) 596 7638.

APPLICATIONS: Applications should be submitted by 6 May 1988 and quote reference number A1033. They should be framed against the selection criteria, and should state relevant personal particulars including details of qualifications and experience. Applicants should nominate at least two professional referees, and address their applications to:

The Chief,
CSIRO Division of Atmospheric Research,
Private Bag No. 1
Mordialloc Vic. 3195.

CSIRO IS AN EQUAL OPPORTUNITY EMPLOYER

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Computational Chemistry/ Molecular Modeling/ Scientific Programming

Merck, Sharp & Dohme Research Laboratories, a leader in the discovery and development of new pharmaceutical agents for human and animal health has several openings for Computational Chemists, and one opening for a Scientific Programmer in our Molecular Systems Group at Rahway, New Jersey and West Point, Pennsylvania.

The successful Computational Chemistry candidates will have a Ph.D. in organic/inorganic/colloidal chemistry or biochemistry; however, we will consider outstanding individuals with a B.S./M.S. or equivalent in the above disciplines or in computer science. Significant experience in scientific programming in FORTRAN or C is required together with a firm grounding in mathematics through differential equations. Computer Science applicants must have a knowledge of at least elementary organic chemistry. Also desirable are knowledge of the VAX/VMS and IBM MVS/XA operating systems, as well as knowledge of macro assembler language for these machines. Computer graphics programming experience is also highly desirable, as is knowledge of high-performance work stations. The successful candidate will join a staff supporting a range of modeling applications programs, and developing a new proprietary molecular/macro molecular modeling system.

Interested candidates should send a resume and three letters of reference to Mrs. Susan R. Jenkins, Merck Sharp & Dohme Research Laboratories, P.O. Box 2000, Rahway, NJ 07065. Merck is an equal opportunity employer, m/f.

Merck & Co., Inc.
ASSISTANT PROFESSOR: New York State PT licensure/eligibility. Ph.D. and post-doctoral experience. Previous teaching experience. Research interests must coincide with department mission. Duties include undergraduate and graduate teaching, direction and conduct of research in one or more of the following areas: cardiovascular and pulmonary physiology, and the ability to develop and maintain research programs. In addition to teaching, the applicant must be familiar with the medical profession and the ability to obtain research funds. Widely respected research programs are required. Candidate must be eligible for PT licensure in New York State. Salary is commensurate with experience and qualifications. Applications should be submitted by 5/15. Inquiries should be directed to: Dr. Susan Roehrlich, Director, PT Program, SUNY/Buffalo, 411 Kimball Tower, Buffalo, NY 14214. Ph.D. and post-doctoral experience are required. An Affirmative Action/Employer.

ASSISTANT PROFESSOR, AQUATIC TOXICOLOGIST: Academic year tenure-track position available fall 1988. Applicants should be able to teach aquatic toxicology, develop a course in the candidate's area of interest, and participate in an introductory course. Candidates will be expected to develop a research program and direct M.S.-level graduate research. Preference must be given to those with at least 3 years of post-doctoral experience. Coordinating officer for the position is available, and will be forwarded to all applicants. In addition, the successful candidate will be expected to develop a strong, independent research program. Candidates must display evidence of research productivity and potential for securing extramural funding as evidenced by publication record. Preference will be given to those with recent training and expertise in molecular biology, preferably with applications in cellular development biology and/or neuroendocrinology. Applicants should send curriculum vitae, statement of research interests, and plans and three letters of recommendation to: Dr. Susan Roehrlich, Director, PT Program, SUNY/Buffalo, 411 Kimball Tower, Buffalo, NY 14214.

DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY, VIRGINIA COMMONWEALTH UNIVERSITY—ASSISTANT PROFESSOR, MOLECULAR BIOLOGY: The Department seeks applicants for a tenure-track appointment as the assistant professor. Applicants must have completed the Ph.D. degree, or Doctor of Science or equivalent, and have had 2 years of postdoctoral experience. Duties will include teaching in the undergraduate and graduate programs. A complete description of the responsibilities of the position is available on request and will be forwarded to all applicants. In addition, the successful candidate will be expected to develop a strong, independent research program. Applications should be sent to the chair, Search Committee, Molecular Biology, Department of Biochemistry and Molecular Biology, Virginia Commonwealth University, 1000 North Boulevard, Richmond, VA 23298-0614. Applications will be accepted until 31 August 1988 or until a suitable candidate has been identified. Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

ASSISTANT PROFESSOR OF PHYSIOLOGY: The Department of Physiology is seeking candidates for a faculty (12-month, tenure-track) position at the assistant professor level. Applicants must hold the Ph.D. degree, or equivalent, and have had 2 years of postdoctoral training. Preference will be given to those with recent training and expertise in the area of cardiovascular and pulmonary physiology. We seek an individual whose research relates to the microcirculation and metabolism of the cell, and one who can contribute to the tradition of excellence in the area of cardiovascular and pulmonary physiology as well. Required qualifications are: M.D., or equivalent, and at least 3 years of postdoctoral training, a sound background in general physiology, and the ability to develop and maintain research programs. Will be responsible for teaching graduate and undergraduate courses in physiology and the ability to develop and maintain research programs. Duties include teaching and conducting research in one or more areas, including cardiovascular and pulmonary physiology. Opportunities exist for collaborative research and publication in graduate education. Applications should include a statement of research interests, and names of three references. All applications must be submitted by 30 June. Inquiries should be directed to: Dr. Michael B. Marion, O'Shaughnessy Building, Room 504, University of Tennessee, Knoxville, TN 37996-1200.

ASSOCIATE IN PAIN MANAGEMENT: OREGON HEALTH SCIENCES UNIVERSITY SCHOOL OF MEDICINE: The Department of Anesthesiology at the Oregon Health Sciences University School of Medicine is recruiting for a full-time faculty member at the assistant professor level. The successful candidate will have an academic appointment in the School of Medicine, and will have teaching and research responsibilities. Salary is commensurate with qualifications and experience. The Department of Anesthesiology, with over 100 members, is committed to the recruitment of women and minority members of the national community.

ASSOCIATE IN PAIN MANAGEMENT: UNIVERSITY OF MICHIGAN SCHOOL OF MEDICINE: The Department of Anesthesiology at the University of Michigan School of Medicine is recruiting for a full-time faculty member at the assistant professor level. The successful candidate will have an academic appointment in the School of Medicine, and will have teaching and research responsibilities. Salary is commensurate with qualifications and experience. Applications are encouraged and applications should be sent to: Dr. Donald M. B. Rottner, Department of Anesthesiology, University of Michigan School of Medicine, 1500 E. Medical Center Dr., Room 506, Ann Arbor, MI 48109. The University of Michigan is an Equal Opportunity/Affirmative Action Employer. Women, members of minority groups, and persons with disabilities are strongly encouraged to apply.

ASSOCIATE PROFESSOR: University of Virginia—Department of Neurology: The Department of Neurology at the University of Virginia is accepting applications for a tenure-track associate professor position. The successful candidate will be expected to develop a strong, independent research program. Applications should be sent to: Dr. John M. E. McDonald, Department of Neurology, University of Virginia, Charlottesville, VA 22908. The University of Virginia is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

ASSOCIATE PROFESSOR: University of Wisconsin—Madison—Department of Medicine: The Department of Medicine at the University of Wisconsin—Madison invites applications from broad-based immunologists with interests in the molecular biology of prokaryotic or eukaryotic cells. Starting date between August 1988 and January 1989. The candidate must have demonstrated excellence in undergraduate teaching, is required to have ongoing lab with expertise in one of the following areas: genetics, neuroendocrinology, animal development, pediatrics, psychosocial aspects of rehabilitation. Salary commensurate with background and experience. Applications should include curriculum vitae, research statement, and three letters of recommendation to: Dr. William D. Maron, Department of Immunology, 615 W. Dayton St., Madison, WI 53706. Application will be accepted until 15 March 1988, and the search will continue until a candidate is selected. An Equal Opportunity/Affirmative Action Employer.

ASSOCIATE PROFESSOR: University of Virginia—Department of Neurology: The Department of Neurology at the University of Virginia is accepting applications for a tenure-track associate professor position. The successful candidate will be expected to develop a strong, independent research program. Applications should be sent to: Dr. John M. E. McDonald, Department of Neurology, University of Virginia, Charlottesville, VA 22908. The University of Virginia is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

ASSOCIATE PROFESSOR: University of Virginia—Department of Neurology: The Department of Neurology at the University of Virginia is accepting applications for a tenure-track associate professor position. The successful candidate will be expected to develop a strong, independent research program. Applications should be sent to: Dr. John M. E. McDonald, Department of Neurology, University of Virginia, Charlottesville, VA 22908. The University of Virginia is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

BIOCHEMISTRY: Miami University, Department of Chemistry and Biochemistry announces a tenure-track assistant professor position beginning August 1988 or January 1989. A Ph.D. in chemistry or biochemistry is required, with a postdoctoral research experience. Salary will be commensurate with qualifications and experience. Sample research areas include: the field of modern molecular biology is preferred. The successful candidate will teach in the graduate and undergraduate programs in a Ph.D.-granting chemical laboratory and be required to establish a strong research program with external funding. Qualified persons should submit their curriculum vitae, a description of research plans and research projects, and arrange for three letters of recommendation to be sent to: Dr. James Cox, Chair, Department of Chemistry and Biochemistry, Miami University, Oxford, OH 45066. Initial consideration of credentials will commence on 25 April 1988. The Search will continue until the position is filled. Because Miami University is an Equal Opportunity/Affirmative Action Employer, women and minorities are particularly encouraged to apply for this position.

COMPUTATIONAL NEUROSCIENCE—AT&T BELL LABORATORIES: Position available for an EXPERIMENTAL NEUROSCIENTIST working in the cellular and systems level. The successful candidate is expected to establish a vigorous and independent research program. Both senior and junior candidates are encouraged. Several years of experience are appropriate candidates. Bell Laboratories has a strong commitment to fundamental experimental and theoretical research in computational neuroscience and has a broad mandate in computing and data analysis. Applicants must have a Ph.D. in a related field and postdoctoral experience, and names of three references to: L. W. Jelks, Department Head, Molecular Biophysics Research Department, AT&T Bell Laboratories, 600 Mountain Avenue, Murray Hill, NJ 07974.

COORDINATOR—ELECTRON MICROSCOPY LABORATORY: Coordinate and maintain a multiuser EM Facility serving the biological and physical sciences. Applicant must have experience in microtome and cryo-sectioning users, specimen preparation and X-ray microanalysis. The facility has two TEMs (Philips 400 with STEM, JEOL 100C2), Philips 505SE, with ED-X ray spectrometer. M.S. or B.S. required with at least 4 years of experience in electron microscopy. Salary dependent on training and experience. Send resume to: Dr. Jerome J. Paukau, Center for Advanced Ultramicroscopic Research, 152 Barrow Hall, University of Georgia, Athens, GA 30602.

CORNEA RESEARCH: Search reopened. A joint appointment with the Department of Ophthalmology at the University of New Mexico Health Sciences Center is available for a SCIENTIST with research interests in the cell biology and molecular biology of the cornea. The successful candidate will be expected to establish a laboratory conducting independent basic research that complements current departmental clinical research interests in cornea. Postdoctoral research experience required. Level of appointment will depend upon research accomplishments. Please send curriculum vitae, a statement of research interests and three references by 15 May 1988 to: Dr. W. P. Kaplan, Ph.D., Chairman, Corneal Research Committee, Neurology Research Laboratory, department of Medicine, and Medical Center, 1120 NW 20th Avenue, Portland, OR 97230—1595.

AN Equitable Opportunity Employer.

ELECTRON MICROSCOPIST/IMAGE ANALYST: Postdoctoral position available to study the high resolution structure of sickle hemoglobin polymers and cytoskeleton-associated proteins. Research involves low-dose cryomicroscopy, tilt-stage reconstructions and digital image processing and analysis. Send curriculum vitae and names of three references to: Dr. Robert Josephs, Department of Neurology, University of Chicago, 920 East 58th Street, Chicago, IL 60615. An Affirmative Action/Equal Opportunity Employer.
MOLECULAR BIOLOGIST

We seek a highly innovative scientist to contribute to the research of novel recombinant DNA technology. The ideal candidate will be actively involved in DNA cloning and manipulating, mutagenesis and vector construction/design. This opportunity requires a BS degree in Biology or related life science with minimum of one year's experience in the above areas.

PROTEIN CHEMIST

An opening exists for an MS/BS level scientist to work on the purification, refolding and characterization of proteins expressed in E. coli. The ideal candidate should have experience in protein separation including ion exchange, affinity, HIC, reverse phase chromatography, gel electrophoresis, and western analysis. Experience in spectroscopy (UV-VIS, fluorescence, CD), with a minimum of 2 years' experience in protein chemistry is also desired. An interest in the structure and functions of proteins is preferred.

We offer a stimulating scientific environment in addition to competitive salary, comprehensive benefits package, and equity participation. Qualified candidates should forward a resume, in confidence, to Cindy Molnar, Genetics Institute, 87 CambridgePark Drive, Cambridge, MA 02140.

An Equal Opportunity Employer

Genetics Institute

ASSOCIATE DIRECTOR FOR REFERRAL AND REVIEW
Division of Research Grants
National Institutes of Health
Public Health Service
A Senior Executive Service Vacancy
Closing Date: May 6, 1988

The Division of Research Grants, National Institutes of Health (NIH), invites applications for the position of Associate Director for Referral and Review. The Division is responsible for the receipt of all Public Health Service (PHS) grant applications for research and training, the scientific merit review of these applications and referral to appropriate PHS components. Candidates must meet the minimum educational requirements for Health Scientist Administrator, possess knowledge of and have experience with scientific merit review as practiced at the NIH, understand the biomedical research community, and have shown evidence of skill in the negotiation of sensitive issues in a scientific environment. In addition, applicants must have demonstrated leadership qualities, be experienced in establishing and maintaining relationships with key individuals and groups outside the organization, experience in directing and guiding programs and projects, experience in establishing procedures for budget development and allocating fiscal and personnel resources, developing processes and overseeing activities to assure the fair and equitable employment of qualified persons, and experience in the development and implementation of budget and financial procedures.

Send an Application for Employment (SF-171), curriculum vitae, bibliography, and current performance appraisal to:

CHARLES Mcl. HADLEY III
PERSONNEL OFFICER
DIVISION OF RESEARCH GRANTS
NATIONAL INSTITUTES OF HEALTH
5333 WESTBARD AVENUE, ROOM 438
BETHESDA, MD 20892

All applications must be received by the closing date of May 6, 1988. Resumes alone are not acceptable applications for the Senior Executive Service.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

REAGENT R&D
Southeast, Florida

The Dade Division of the Fortune 75 Baxter Healthcare Corporation is a leading supplier of diagnostic products and instrumentation for clinical laboratories which is enjoying continued growth and expansion at its facilities in the U.S., Europe and Puerto Rico. The following positions require several highly motivated, results-oriented individuals to become members of our Stratus Reagent Development Department, where successful candidates would work with an exciting technology which has proven to be one of the most rapid and versatile means of enzyme immunoassay available today.

SR. RESEARCH SCIENTIST
Stratus Immunoassay System

This individual will be an assay development Project Leader working with the automated Stratus Immunoassay System. A Project Leader is responsible for the management of an assay development team. Candidates must have a Ph.D. in a life science with a working knowledge of virology and must be well versed in EIA techniques with hands-on experience in their design and development. Candidates with post-doctoral training, particularly in an industrial setting, will be given greater consideration. Strong written and oral communications skills and strong interpersonal skills are essential.

GROUP LEADER
Stratus Systems Surveillance

This individual will be responsible for the management of our Stratus analyzer reference facility and for our Stratus product surveillance group. As such, this individual must represent R&D in problem solving interactions with other functional groups both within and outside the organization. The successful candidate will have a minimum of a Bachelor's degree in a life science; an advanced degree is highly desirable. At least 5 years prior industrial experience in immunoassay development, manufacture and/or testing is required. This position requires an individual with demonstrated management capabilities, a broad base of technical knowledge, and highly developed negotiating skills.

SR. RESEARCH SCIENTIST
Protein Analysis/Modification

This individual will be responsible for protein modifications, coupling of hapten with proteins and development of biochemical methods for analysis of proteins and organic molecules. A background in protein chemistry, organic synthesis, instrumental analysis and chromatographic separations is needed as well as strong interpersonal and oral and written communication skills. Candidates must have a Ph.D. in bio-organic chemistry or analytical biochemistry and preferably postdoctoral or industrial experience. Knowledge of immunology and EIA would be helpful though not required.

The Dade Division is based on the beautiful east coast of south Florida where, in addition to paying no state or local income taxes, you will enjoy a year-round quality lifestyle which attracts new residents and visitors from around the world. As a member of the Baxter R&D team, you will not only enjoy an outstanding professional and scientific environment and exceptional career growth opportunity, you'll also receive a very competitive salary and benefits package.

For consideration for any of the above positions, please send your resume along with salary history in confidence to: Professional Staffing, Baxter Healthcare Corporation, Dade Division, P.O. Box 140520, Coral Gables, FL 33114. Equal Opportunity Employer.
POSITIONS OPEN

DIRECTOR CLINICAL HISTOCOMPATIBILITY AND IMMUNOGENETICS PROGRAM

We are seeking an M.D. to provide medical/scientific direction for a large, active Histocompatibility and Immunogenetics (H & I) Laboratory, act as liaison between this laboratory and patient care physicians, and pursue clinical research relevant to transplantation. Experience in a clinical HLA program, transplantation program and extensive knowledge of histocompatibility and immunogenetics as applied clinically to transplantation, disease association, immunology, and transfusion medicine are desired. Good communication skills and the ability to interact effectively with a wide range of physicians, researchers, and technologists are required. Ability to compete for research grants and contracts in the area of histocompatibility and immunogenetics is highly desirable. Opportunity to work with nationally and internationally recognized investigators working in immunology and immunogenetics.

Send curriculum vitae and other particulars to:

David D. Eckels, Ph.D.,
Senior Investigator
Immunogenetics Research Section
Scientific Director, H & I Laboratory
The Blood Center of Southeastern Wisconsin
1700 W. Forest Avenue
Milwaukee, Wisconsin 53233
Equal Opportunity Employer

DIRECTOR MACROMOLECULAR ANALYSIS FACILITY
LOYOLA UNIVERSITY STRITCH SCHOOL OF MEDICINE

Loyola University of Chicago Stritch School of Medicine invites applications for a position of Director of the Macromolecular Analysis Facility. The Director will be responsible for supervising operation, administration, and maintenance of a newly created interdisciplinary research facility dedicated to peptide synthesis, protein sequence and oligonucleotide synthesizers. The successful candidate should have expertise in peptide chemistry and familiarity with automated protein sequence analysis and amino acid analysis. Experience in oligonucleotide synthesis and DNA sequence analysis are desirable. Send resume and the names of three references to:

Dr. G. Sullivan Read, Macromolecular Facility Search Committee, Loyola University of Chicago, Stritch School of Medicine, c/o Sherron Glenn, Human Resources Department

1720 West Harrison Street
Chicago, Illinois 60612.
Equal Employment Opportunity/M/F.

DIRECTOR DIVISION OF TOXICOLOGY
DEPARTMENT OF PHARMACOLOGY AND TOXICOLOGY
UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES

The Department of Pharmacology and Toxicology of the University of Arkansas for Medical Sciences is conducting a search to identify candidates for the position of Director of the Division of Toxicology. A successful candidate will have an earned doctoral degree with active research interests in pharmacology, toxicology, or occupational medicine. The Director of the Division of Toxicology will be responsible for administering graduate programs in toxicology and industrial hygiene. Other educational responsibilities include continuing education in toxicology for health professionals. The director is expected to have and maintain an active research program and to have demonstrated ability to compete successfully for research support.

The University of Arkansas is an Equal Opportunity Employer. Women and minority candidates are encouraged to apply. Submit curriculum vitae, summary of research and administrative experience, and the names of at least three references to:

Dr. Donald R. Mattison
Department of Obstetrics and Gynecology
University of Arkansas for Medical Sciences
4300 West Markham, Slot 518
Little Rock, AR 72206

POSITIONS OPEN

DIRECTOR ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY
CINCINNATI, OHIO (EMSL-CIN)

U.S. Environmental Protection Agency is seeking highly qualified candidates for the position of Director, EMSL-CIN. The EMSL-CIN, a component of the Office of Research and Development, is responsible for the planning, management, development and implementation of multi-media (water, toxic, and hazardous wastes) research programs; the development of monitoring data and information processing and sophisticated instrumentation; the research programs, the coordination of the development of monitoring data and information processing, and sophisticated instrumentation; the coordination of the national pollution monitoring quality assurance program for water and waste-water systems; the development of methods for the concentration, recovery and identification of chemical, physical, and biological pollutants in biotechnology research programs.

To qualify, applicants must have a bachelor's or higher degree in either biological or physical sciences or engineering that included training in organic or inorganic chemistry or chemical engineering and statistics and must meet the technical and executive qualifications described in the Vacancy Announcement. Call/write: Edna Morse, RFA, 655 and Executive Resources Unit, FM-224, 401 M Street, S.W., Washington, DC 20460, Telephone: 202-382-3328, for the Vacancy Announcement. Applications must be postmarked by 30 April 1988. EPA is an Equal Employment Opportunity Employer.

FACULTY POSITION CULLEN EYE INSTITUTE
Baylor College of Medicine

Applications are invited for a faculty position in a major ophthalmic institute for a scientist with an interest in the mechanisms regulating tissue growth. Qualified applicants must have a Ph.D. or M.D. degree with strong postdoctoral experience in basic research. Successful applicants are expected to establish a vigorous independent research program in one of the following areas: (i) intracellular vacuolar proliferation, (ii) pigment epithelial cell proliferation and migration; or (iii) trophic factors, which would complement other research programs in vision and ophthalmology already underway in the department. Possibilities for joint appointments in an appropriate basic science department or graduate program in the college are desirable and encouraged. Rank and salary will be commensurate with experience and qualifications. First consideration will be given to a statement of research interest and names and telephone numbers of at least three references.

Dr. Joe A. Hinchfield
Chair, Search Committee
Cullen Eye Institute
Baylor College of Medicine
Houston, Texas 77030

TWO FACULTY POSITIONS IN NUTRITION

Assistant professor/associate professor, Department of Food Science and Nutrition, University of Minnesota, St. Paul. Tenure-track or tenured.

Develop independent research programs in nutrition science or clinical nutrition; teach advise at both graduate and undergraduate levels; participate in cooperative department programs; research and development helpful in one position; ability to attract external research funding essential; postdoctoral and teaching experiences preferred; demonstrated ability to communicate and publish research findings in nutrition science preferred. Must have Ph.D. in nutrition or related area. Competitive salary and attractive environment.

Apply by 10 May 1988 to: Dennis A. Saviano, Chair, Search Committee, Department of Food Science and Nutrition, University of Minnesota, St. Paul, 1334 Eddies Avenue, St. Paul, Minnesota 55108. Include detailed curriculum vitae with publications list, graduate school transcripts, and names and addresses of at least three references. Starting date: 1 September 1988 preferred.

The University of Minnesota is an Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

POSITIONS OPEN

FACULTY POSITION IN MOLECULAR BIOLOGY/PROTEIN STRUCTURE
DUKE UNIVERSITY

The Department of Microbiology and Immunology, Duke University Medical Center, invites applications for a faculty position at an academic rank of assistant or associate professor, in the area of molecular biology with expertise in protein structure and function. Applicants are expected to develop a strong independent research program focused on the structural and functional basis of proteins and to have a strong commitment to graduate education. Adequate space and start-up funds are available. Interested persons should, by 15 May 1988, send their curriculum vitae and bibliography, the names of three references, and a brief description of future research interests and plans to: Dr. W. K. Joklik, Chairman, Department of Microbiology and Immunology, P.O. Box 30306, Duke University Medical Center, Durham, NC 27710.

Duke University is an Affirmative Action/Equal Opportunity Employer.

OPPORTUNITY TO HEAD AND DEVELOP CLINICAL RESEARCH UNIT

A full-time position as Head of the Clinical Research Unit is being offered with Ph.D. or D.P.H. level. Candidates should be established and recognized clinical researchers who will take the lead in setting the direction, developing objectives, and recruiting faculty and staff for a unique new department doing clinical research on eye diseases at the Eye Research Institute. In addition to developing their own areas of scientific investigation, it is anticipated that members of the new unit will forge strong interactions with other research activities at the Institute. This position is designed to maximize clinical research talent without the traditional time-consuming clinical responsibilities.

Send curriculum vitae to:

Arthur H. Neufeld, Ph.D.,
Director of Research
Eye Research Institute
20 Stanford Street
Boston, MA 02114

Equal Opportunity/Affirmative Action Employer/M/F and other.

MANAGER, QUALITY ASSURANCE

Ambico, Inc., a rapidly growing veterinary biotechnol- ogy company, located just outside Des Moines, Iowa, is currently hiring a manager for its Quality Assurance Department. We will consider candidates with a Ph.D., D.V.M., or M.S. degree and work experience in tissue culture, virology, bacteriology, enzymology, and USDA regulatory procedures. Responsibilities will also include certain developmental activities in collaboration with our Research Department. This is an excellent growth opportunity for the right individual. Please send résumé to:

Human Resources, Ambico, Inc., Box 522, Dallas Center, IA 50663.

U.S. DEPARTMENT OF AGRICULTURE (USDA)
AGRICULTURAL RESEARCH SERVICE (ARS)

MATHEMATICIAN GS-12. Applications are invited for a mathematician to perform collaborative research on methodology development to assess nutritional status. Position is located at the Western Human Nutrition Research Center, San Francisco, California. Ph.D. in mathematics—statistics and knowledge of nutrition, epidemiology, and biostatistics preferred. Starting salary will be commensurate with qualifications. Applications will be accepted until the position is filled. Application materials to: Dr. Robert E. Bowers, Director, Western Human Nutrition Research Center, P.O. Box 3999, Presidio of San Francisco, CA 94129. Information on application procedures may be obtained by contacting: Richard Milard, ARS, Personnel Division, Beltsville, MD 20705, or telephone: 301-544-3138. Information pertinent to this ad should be marked 80013. An Equal Opportunity Employer.
The University of Iowa College of Medicine is seeking to recruit a distinguished scientist with a record of scientific leadership to fill an ENDOWED CHAIR IN ONCOLOGY AND MOLECULAR BIOLOGY. These areas are broadly defined in the context of growth and development and may include individuals whose work is not normally viewed as restricted to cancer. This position carries with it a substantial commitment in research support and space. The salary will be commensurate with experience. Please address letters of interest or nomination to:

Dr. P. Michael Conn
Search Committee Chairman
Professor and Head of Pharmacology
2-454 Bowen Science Building
The University of Iowa College of Medicine
Iowa City, IA 52242

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

RORER CENTRAL RESEARCH, a subsidiary of RORER GROUP, INC. has three openings. Send resume to LINDA STEWART, Personnel Department, Rorner Central Research, Inc., 640 Allendale Road, King of Prussia, PA 19406. (NO PHONE CALLS PLEASE) Indicate Job Number you are responding to:

JOB NO. 1

ASSOCIATE SCIENTIST to perform research and experiments to generate and utilize monoclonal antibodies against a cell surface receptor called neu-proto-oncogene product utilizing immunological tools to explore the mechanisms of receptor action and the identification of the putative ligand of this receptor. MS in Biology + 2 years experience as Research Scientist required. Previous experience must include hands-on experience producing monoclonal antibodies for research and diagnosis and utilizing biochemical methods such as cell particle and protein fractionation, gel filtration and ion exchange chromatography.

SALARY: 25K to 30K

JOB NO. 2

RESEARCH SCIENTIST to permit bio-analytical chemical research related to drug disposition, including method development of drug analysis in biological fluids to support preclinical and clinical studies. Separate and identify metabolites or the degradation products of drugs in biological systems. Supervise and train junior chemists and laboratory technicians. PhD in Biochemistry + 1 year experience as a Research Scientist required. Previous experience must include one-year’s hands-on experience developing methods of drug analysis utilizing HPLC and mass spectrometry system, SFG system.

SALARY: 35K to 42K

JOB NO. 3

SENIOR RESEARCH SCIENTIST to perform research and experiments in order to determine ways in which oxygen delivery from red blood cells can be increased into the tissues so that a drug can be developed which will decrease the affinity of oxygen for hemoglobin at the capillary level for use by human heart patients. PhD in Biochemistry + 2 years as Research scientist required. Previous experience must include hands-on research experience utilizing various chromatographic techniques, radioactive sequencing, HPLC and molecular cloning techniques.

SALARY: 38K to 48K

ALL JOBS ARE LOCATED AT OUR KING OF PRUSSIA RESEARCH FACILITY. HOURS ARE 40 HOURS PER WEEK, M-F, 8:15 A.M. – 4:45 P.M. Salary offered is contingent upon background and experience. Principals only need apply. Resumes must be received no later than April 29, 1988.

Equal Opportunity Employer

PhDs • PHARMACOLOGY • PHYSIOLOGY

Your scientific expertise is the foundation for a strong future

Hoechst-Roussel Pharmaceuticals Inc., fast-growing subsidiary of Hoechst Celanese Corporation, a $4.6 billion division of one of the world’s leading producers of chemicals and pharmaceuticals, has several newly created opportunities for published Pharmacologists or Physiologists. Primary responsibilities will entail developing contacts within medical institutions, universities, teaching hospitals and government research groups. In addition, you will prepare auxiliary technical materials and deliver technical updates/training to field sales personnel.

Ideal candidates will possess a BS in Pharmacy, a PhD in Physiology or Pharmacology, and 2-3 years teaching experience at the university level.

These highly visible positions will provide direct contact with prominent figures in the medical field and pharmaceutical industry.

We offer a superb compensation package, including an excellent salary plus expense account, a company car and outstanding company benefits. Positions are available in New York City and Los Angeles.

Send curriculum vitae with current earnings to Mr. Gary Kowalski, Hoechst-Roussel Pharmaceuticals Inc., Route 202-206 North, Somerville, New Jersey 08876. An affirmative action employer M/F/H.
**SENIOR SCIENTIST**

**NEPHROTOXICITY**

The LILLY RESEARCH LABORATORIES, a Division of Eli Lilly and Company, is seeking a creative and highly motivated scientist to direct a research program in nephrotoxicity within the Department of Biochemical Toxicology.

Qualified candidates should have a doctoral degree in toxicology, pharmacology, or physiology with experience in nephrotoxicity research; strong in vitro and in vivo skills are required. The primary responsibilities will be to evaluate the nephrotoxic potential of new therapeutic agents, to investigate mechanisms of drug-induced nephrotoxicity, and to contribute to the drug development process. Post-doctoral training is preferable, but not essential.

The position provides an excellent research and development opportunity within a stimulating multi-disciplinary environment. Qualified applicants should send detailed curriculum vitae to:

John W. Crooks  
Manager, College Relations  
(SNP)  
Eli Lilly and Company  
Lilly Corporate Center  
Indianapolis, Indiana 46285  
Equal Opportunity Employer

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**Molecular Virologists**

The Department of Anti-infectives of Smith Kline & French Laboratories, located in suburban Philadelphia, Pennsylvania, is seeking outstanding senior scientists to expand its current research programs in Molecular Virology. The individuals will be involved in a multidisciplinary research effort focused on mechanistic studies of viral replication and pathogenesis directed toward the discovery of novel antiviral strategies including therapies for AIDS.

Successful candidates are required to have:

- a Ph.D. in animal virology with at least 4 years postdoctoral experience in virology or molecular virology.
- expertise and/or practical knowledge in the study of viral replication and pathogenesis in tissue culture or animal models.
- a strong publication record.
- excellent written and oral communication skills.
- ability to interact with a multidisciplinary research team.

We offer excellent compensation and benefits as well as an attractive relocation policy. For confidential consideration, send your C.V. and names of three references to Robert F. Obst, Manager, Personnel Relations, R0126, Smith Kline & French Laboratories, P. O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.

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**Sr. Scientists Insect Research**

The Basic Insect Biology Department of Zoecon Research Institute, a division of Sandoz Crop Protection Corporation, is seeking experienced Ph.D. scientists to work within an interdisciplinary research team studying insect neuropeptide systems.

**Work areas include:**

1. Enzymology of post-translational processing of proteins to active neuropeptides & hormone receptor systems.

To apply for this position, please send curriculum vitae and the names of three references to:

Sandoz Crop Protection Corporation  
Zoecon Research Institute  
Human Resources Department  
975 California Avenue  
Palo Alto, CA 94304-1104  
AA/EOE

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Whenever you write us about your membership or subscription, please attach a Science address label to ensure prompt service.

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□ Query: If you have a question, place your address label here and attach this form to your letter.

□ To join or subscribe: Mail this form with your payment, mark the appropriate boxes, and print your name and address in the space below. (For renewals, attach label.)

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  □ $130 air-surface delivery via Holland

□ Subscriber rates
  □ $98 USA  □ $130 Canada □ $125 Foreign  
  □ $163 air-surface delivery via Holland

□ Payment enclosed □ Bill me later

Name  
Please print  
Address

City  
State  
Zip  
SA16RB4
HAZARDOUS SUBSTANCE RESEARCH CENTERS

The Environmental Protection Agency is seeking applications for the establishment of five university–based Centers to conduct research and training relating to the manufacture, use, transportation, disposal and management of hazardous substances.

For further information concerning a general description of the program, eligibility, submission requirements, review procedures, closing date for response and other information pertaining to the program, contact:

Karen Morehouse
US Environmental Protection Agency (RD-675)
401 M St., SW
Washington, DC 20460
Phone–(202) 382-5750

OR

Robert Papetti
US Environmental Protection Agency (RD-675)
401 M St., SW
Washington, DC 20460
Phone–(202) 382-7473

UBC
The University of British Columbia

BIOTECHNOLOGY LABORATORY

Graduate Student and Post-Doctoral Teaching Assistantships in the Biotechnology Laboratory

The Biotechnology Laboratory, under the directorship of Dr. Michael Smith, is a new venture of the University of British Columbia. It is designed to build bridges in research and teaching in biotechnology between basic and applied sciences. Emphasis is on the use of molecular genetics to solve major problems in forest, plant, animal and human biology and infectious disease, on fermentation and process engineering applied to mammalian cell studies and on protein structure-function relationships.

Prospective graduate students should have undergraduate degrees in the life, physical or engineering sciences and prospective post-doctoral fellows should have graduate training in these areas.

Sipends will start at $11,795 for graduate students and at $19,860 for post-doctoral fellows. Positions will be available in September, 1988.

Submit applications by May 31, 1988, including curriculum vitae, complete academic transcripts and the names, addresses and phone numbers of three referees who are competent to evaluate your scientific potential to: Mrs. Darlene Crowe, Supervisor, Administration, Biotechnology Laboratory, The University of British Columbia, 238-6174 University Boulevard, Vancouver, B.C., CANADA V6T 1W5.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

Postdoctoral Positions
One-Year Assignment with Possible Extension

Join a Research Team Where Experience and Knowledge are Recognized and Rewarded.

CIBA-GEIGY Corporation is an international corporation respected throughout the world for its commitment to the research and development of pharmaceuticals. We currently seek qualified candidates to join us at our Summit, NJ headquarters and participate in the discovery and development of drugs useful in the therapy and prevention of human disease.

Bio/NMR

Seeking a PhD in Biology or Biochemistry with experience in the area of heart perfusion to perform valuable research in the area of Biological NMR studies as they relate to the pharmaceuticals industry. Interacting with the Biology staff, you'll support the development of a vigorous Bio/NMR program. A strong background in NMR applications is desirable. You'll have access to a fully equipped electronics laboratory dedicated to the NMR group, with the opportunity to participate in probe design. Instrumentation includes a Varian Wide Bore XL-400 NMR spectrometer and a Bruker Wide Bore AM-300 NMR spectrometer with a 31P surface coil probe. Please respond to Dept. NMR.

Inflammation/Osteoarthritis Research

Participate in a collaborative project between IOR and Dr. Jeff Stock, Department of Molecular Biology, Princeton University. This project involves the characterization of transcriptional and methylation events associated with human leukocyte activations. A PhD in Biochemistry or Molecular Biology is required, with expertise in cell biology and eukaryotic gene expression preferred. Please respond to Dept. IOR.

CIBA-GEIGY offers competitive salaries and full benefit packages. For consideration, please submit resume, complete with salary requirements, position of interest and appropriate department number, in confidence, to: Staffing Center, CIBA-GEIGY Corporation, The Pharmaceuticals Division, 556 Morris Avenue, Summit, NJ 07901. We are an equal opportunity employer m/f/h/v.

Science Serving Mankind

CIBA-GEIGY
POSITIONS OPEN

INVESTIGATIVE ENDOSCOPIST

This position is at the level of assistant professor of medicine and is for the directorship of the gastroenterology laboratory at Parkland Memorial Hospital. Applicants must be fully trained in internal medicine/gastroenterology and must have extensive experience in routine and complex endoscopy, including both upper and lower gastrointestinal tract. Endoscopists will be expected to be engaged in clinical research and development of endoscopic procedures and removal and stent placement in common duct and pancreatic duct. This individual is expected to participate in developing major clinical research programs related to gastrointestinal disease and new therapies for treatments of common duct and pancreatic cancer. Submit letter of application, summary of research interests, clinical qualifications, current vitae and names of three references to: Dr. John M. Dietschy, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75390. The University of Texas is an Equal Opportunity/Affirmative Action Employer.

MAMMALIAN MOLECULAR GENETICIST

The Department of Biological Science of Florida State University invites applications for a 12-month tenure-track permanent position in a biomedical technology research program dedicated to gene therapy for analyzing mammalian genomes. Candidates should have experience in gene mapping, cloning/manipulation of large genomic DNA libraries, or cDNA libraries. Recent Ph.D. required, postdoctoral experience in these fields is helpful. Starting salary is $30,000 to $35,000 per year, depending on qualifications. Applications are accepted from March 15 to May 15 each year. Submit letter of application, summary of research interests, teaching qualifications, and names of three references to: Dr. John Hodesier, Department of Biological Science, Biology 311, Florida State University, Tallahassee, FL 32306-3043. Affirmative Action/Equal Opportunity Employer.

MOLECULAR BIOLOGIST

The American Health Foundation invites applications from candidates who have a Ph.D. or M.D. degree, a record of accomplishments in research in the area of molecular genetics, and exceptional potential for establishing an independent program of research, and assisting in the teaching of core courses in molecular genetics. Applicants are invited to submit current vitae, a statement of research interests, and to arrange to have three letters of recommendation sent to: Dr. Stephen Hecht, Director of Research, American Health Foundation, 1 Dana Road, Valhalla, NY 10595. An Equal Opportunity Employer M/F/VII/V.

MAMMALIAN MOLECULAR GENETICIST

Applications are invited for a research faculty position with excellent laboratory facilities in the cellular and molecular biology graduate program in the Graduate School of Biomedical Sciences, at the State University of New York, Buffalo. Candidates should have a Ph.D. or M.D. degree, a record of accomplishments in research in the area of molecular genetics, and exceptional potential for establishing an independent program of research, and assisting in the teaching of core courses in molecular genetics. Applicants are invited to submit current vitae, a statement of research interests, and to arrange to have three letters of recommendation sent to: Dr. Lee V. Leahy, Chairman, Search Committee, Department of Anatomy, College of Medicine, Howard University, 620 W Street N.W., Washington, D.C. 20059. Applications should be submitted before 30 April 1988. Howard University is an Equal Opportunity Employer.

NUTRITIONAL BIOCHEMISTRY

Full-time research position LABORATORY SCIENTIST in the nutrition laboratory is available. Applicant must have knowledge and desire to conduct research in the area of nutrition. Recent Ph.D. or equivalent degrees with research experience will be considered. Starting salary is $21,500 per year, dependent on qualifications. Submit current vitae, a statement of research interests, and to arrange to have three letters of recommendation and curriculum vitae to: The Director of Personnel, University of Maryland Eastern Shore, Princess Anne, MD 21853-1299. Equal Employment Opportunity/Affirmative Action Employer.

MOLECULAR BIOLOGIST

To conduct studies on the molecular mechanisms involved in neoplastic development. Must have at least 3 years of postdoctoral experience in the field of DNA repair in prokaryotic and mammalian cells. Extensive experience with expression vectors (both in vitro and in vivo), including recombinant DNA techniques, and transcriptional and translational regulatory sequences (enhancers, promoters, transcription terminators, etc.) is required. Salary is negotiable, with position to be filled immediately. Send curriculum vitae to: The Squibb Institute for Medical Research, Human Resources Department 500, P.O. Box 40000, Princeton, NJ 08543. An Equal Opportunity Employer.

TWO POSTDOCTORAL FELLOWS

Required for studies on the synthesis, structure, polymerization, and applications of complex carbohydrates. The candidate will have at least 1 year postdoctoral experience with emphasis on the collagen. Multidisciplinary group provides expertise in biochemical, biophysical chemistry, primary structure, secondary structure, and cell biology. Position requires strong background in either protein purification or protein macromolecular assembly. Experience with connective tissue proteins highly desirable—available 1 April 1988, and 1 June 1988. Please send current vitae to: Dr. V. S. Dixit, University of Wisconsin Department of Biochemistry Oregon Health Sciences University 3110 S.W. Sam Jackson Park Road Portland, OR 97201

POSTDOCTORAL FELLOWSHIP IN PULMONARY MICROcirculatory PHYSIOLOGY

A position is available from June 1988 for the study of macrophage interactions and pulmonary micorcirculatory systems, by the micropuncture and intravital microscopy techniques. Applicants should have an advanced degree in the medical or the engineering sciences. Training in the biology of arterial and venular blood, transport biophysics, protein chemistry, cell physiology, videomicroscopy. Send letters of reference and curriculum vitae to: Jalar Bhattacharya, M.D., Ph.D., Department of Physiology and Medicine, College of Physicians and Surgeons, Columbia University and St. Luke's-Roosevelt Hospital Center, 428 West 59th Street, New York, NY 10019. An Equal Opportunity Employer M/F.

POSTDOCTORAL POSITIONS at the Dana-Farber Cancer Institute, Harvard Medical School available immediately to develop experimental therapy for melanoma. Areas of concentration: drug design, gene therapy, biology/biochemistry of melanoma including studies of oncogene involvement in melanoma, and the molecular biology of melanoma. Experience in one or more of the following areas desirable: biochemistry, cell biology, gene cloning, and pharmacology. Position seeks a Ph.D. or M.D. Salary: approximately $25,000 per year plus benefits. Positions can be renewed for up to 3 years. Send curriculum vitae, names and addresses of three references to: Dr. Michael Wick, Associate Professor, Department of Dermatology and Division of Medicine, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02215. An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available to join NIH-funded, highly competitive laboratory working on molecular aspects of herpes simplex virus latency and reactivation. Investigation focuses on studying the growth, replication, and stability in latency of HSV-1derived plasmid vectors. Outpatient graduate level salary of $23,000 per year. Applicants should have at least 1 year of postdoctoral experience. Send curriculum vitae with names and addresses of three or more references to: Steven L. Weissler, Ph.D., Viral Research Laboratory, Cedars-Sinai Medical Center/UCLA School of Medicine, 8700 Beverly Boulevard, Los Angeles, CA 90048.
Associate Research Scientist
MS/BS
Cardiovascular Pharmacology

OUR WALLINGFORD, CONNECTICUT WORLD HEADQUARTERS is a unique multi-million dollar setting that fosters professional achievement and interdisciplinary cooperation.

This Associate Research Scientist position in our Cardiovascular Pharmacology department requires 2-4 years laboratory experience in the methodologies associated with cardiovascular drug evaluation, including hemodynamics and myocardial function. Expertise in in vivo systems, computers and statistics is highly desirable.

BRISTOL-MYERS OFFERS sustained growth, highly competitive salaries, extensive benefits and career support. Our countryside location is convenient to New Haven and Hartford, Connecticut, New York City and New England. Please send resume with salary history to:

BRISTOL-MYERS COMPANY, Pharmaceutical Research & Development Division, Attn: HR6, P.O. Box 5100, 5 Research Parkway, Wallingford, CT 06492.

Bristol-Myers Company

An equal opportunity employer MF/HV

Research Scientist/ Research Associate

Positions are available for Neuroscientist or Bioengineer in a newly developed multidisciplinary laboratory to study novel actions of lasers on nervous tissue. Research topics range from applied neurosurgical applications of state-of-the-art lasers, to more fundamental aspects of laser actions on synaptic transmission and nervous conduction. Some experience with laser applications would be helpful.

Salary is negotiable. Please send curriculum vitae and the names of three references to the Director of Research, Human Resources Department.

Located in Columbus Hospital
2530 North Laveview Avenue
Chicago, IL 60614

EEO/AA/VA

Bioanalytical Chemist

The Department of Safety Assessment at the Merck Sharp & Dohme Research Laboratories is seeking a Bioanalytical Chemist experienced in HPLC, GLC and RIA. Primary responsibilities include methodology development for the analysis of enzyme systems and endogenous biochemical markers in biological systems leading to an understanding of organ toxicity mechanisms and species differences in toxicity.

The successful candidate will have an MS or a BS with two or more years of experience in Toxicology, Biochemistry, Pharmacology, or the equivalent. Expertise in enzyme assay development (UV spectroscopy and radioisometric methods) and experience with HPLC and GLC is desirable. In addition, good oral and written communication skills are imperative.

Merck Sharp & Dohme Research Laboratories is an equal opportunity employer.

Please forward your resume to:
Michele Dauber - W42-2
Merck Sharp & Dohme Research Laboratories
West Point, PA 19486
EEO/AA/VHL/Employer

RESEARCH FELLOW
$28,629-$41,861
DIVISION OF ATMOSPHERIC RESEARCH, ASPENDALE, VIC. 3195

FIELD: Climate Dynamics

THE DIVISION: The Division of Atmospheric Research maintains broadly-based research programs in climate dynamics, regional and local air pollution studies, satellite and remote sensing, and atmospheric physics and chemistry.

THE PROGRAM: The Large Scale Dynamics program is concerned with regional and global scale climate including the mechanisms underlying climate variability and change, and the impact of climate change, including studies of the GREENHOUSE effect and the predictability of Australian rainfall variations. The Division has a suite of atmospheric models available and access to CSIRONET and CSIRO's Cyber 205 computer.

THE JOB: To undertake research into climatic changes, and the dynamical and physical processes involved, due to increasing greenhouse gases using large scale models of the atmosphere.

THE PERSON: A Ph.D. or equivalent qualification in the physical sciences with demonstrated research ability.

CONDITIONS: Appointment will be for a term of 3 years with Australian Government Superannuation benefits available.

MORE INFORMATION: Prospective applicants are invited to telephone Dr. Jorgen Frederiksen on (03) 586 7666 for further information. Dr. Frederiksen can also provide a copy of the detailed job description and selection criteria.

APPLICATIONS: Applications should be submitted by 6 May 1988 and should quote reference number A1148. They should be framed against the selection criteria and provide details of relevant personal particulars, including qualifications and experience. Applications should nominate at least two professional referees, and address their applications to:

The Chief CSIRO,
Division of Atmospheric Research
Private Bag No. 1
MORRIS LIDO VIC. 3195.

CSIRO IS AN EQUAL OPPORTUNITY EMPLOYER

Merck & Co., Inc.
POSTDOCTORAL POSITION—CARCINOGENESIS

Multyear position available June 1988, in a group using cell and molecular biologic approaches to characterize 6-methylguanine transmethylation Experience in protein purification preferred Send curriculum vitae and names of three references to: Craig W. Beartie, Ph.D., Division of Surgical Oncology (m/c 820), University of Illinois College of Medicine, 840 South Wood Street, Chicago, IL 60612

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

POSTDOCTORAL POSITIONS are available to study the molecular biology of T lymphocyte activation and growth. Projects include analysis of the structure/function of interleukin 2 receptor subunits and the role of L5-6 alloantigens in T cell activation. Prior experience in cell surface protein chemistry or recombinant DNA technology is preferred. Send curriculum vitae and names of three references to: Dr. Thomas Malek, Department of Microbiology and Immunology (R13B), University of Miami School of Medicine, Miami, FL 33101.

POSTDOCTORAL POSITIONS

Staff fellows and/or visiting fellow/associate positions are available at the National Institute on Alcohol Abuse and Alcoholism (NIAAA). Emphasis is on studies of neuroepithelial synthesis and action, and G-protein structure and function, in brain and in cell cultures. Experience in protein chemistry or molecular biology, including work with DNA, RNA, and/or autoradiography and in situ hybridization, is required. Salary range is from $21,000 to $32,500, commensurate with relevant postdoctoral experience Send Curriculum Vitae and names of three references to: Baxter Healthcare Corporation, Dade Division, P.O. Box 140520, Coral Gables, FL 33114 Attention: CDC Department Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE—A postdoctoral position to isolate, identify, and synthesize certain aroma active hop oil constituents is available. A Ph.D. in organic chemistry or physical organic chemistry with several years of experience in the chromatographic separation of complex mixtures of organic compounds and their identification by modern analytical methods is required. Salary range is $20,000 to $22,000, depending on experience and qualifications. Send curriculum vitae and three letters of recommendation by 5 May 1988 to: Dr. Max Dejter, Department of Agricultural Chemistry, Oregon State University (OSU), Corvallis, OR 97331. OSU is an Affirmative Action/Equal Opportunity Employer and Compliant with Section 504 of the Rehabilitation Act of 1973. OSU has a policy of being responsive to the needs of dual-career couples.

POSTDOCTORAL/RESEARCH ASSOCIATE POSITION available immediately to work with a research group to develop AIDS vaccines Specific tasks involve the construction and testing of recombinant vaccines against simian immunodeficiency virus (SIV). Prospect of long-term funding excellent Experience in molecular biology and virology desired Please send curriculum vitae and names of three references to: Dr. Shen-Lok He, 1-321 Health Sciences Research Building, University of Washington, Seattle, WA 98195. Telephone: 206-544-4046.

POSTDOCTORAL RESEARCH ASSOCIATE POSITIONS

Available now to investigate mechanism of regulation of lipoprotein lipase and hepatic lipase protein synthesis and catalytic activities Cell culture (liver, adipocyte, endothelial), molecular biology, immunochimistry (monoclonal antibodies), and recombinant DNA techniques are employed. Applicants should have training in biochemistry or molecular biology and experience with recombinant DNA desirable. Send resume and names of three references to: Dr. Andre Beneduc, Division of Biological Sciences and Nutritional Biochemistry, 242 Sawyer Hall, Cornell University, Ithaca, NY 14853.

POST DOCTORAL RESEARCH FELLOWSHIP IN MOLECULAR DIAGNOSTICS

Atlanta Area

Dade Diagnostics Division of Fortune 100 Baxter Healthcare Corporation, in collaboration with the Centers for Disease Control, is pleased to announce an opening in molecular diagnostics to pursue new approaches for the diagnosis of viral hepatitis. This position is a two year post-doctoral appointment in the Hepatitis Branch, Division of Viral Diseases, Centers for Disease Control that involves the development of isotopic and non-isotopic hybridization assays at the cellular and molecular levels. The candidate must have a Ph.D. in molecular biology, biochemistry or related discipline, and a background in the molecular biology of viruses. The appointment carries an annual stipend, relocation assistance to Atlanta, and a fringe benefit package. Please send Curriculum Vitae and names of three references to: Baxter Healthcare Corporation, Dade Division, P.O. Box 140520, Coral Gables, FL 33114 Attention: CDC Department Equal Opportunity Employer.

Baxter

NATIONAL INSTITUTE OF ARTHRITIS AND MUSCULOSKELETAL AND SKIN DISEASES (NIAMS)

NATIONAL INSTITUTES OF HEALTH

PUBLIC HEALTH SERVICE

The Section on Chemical Immunology of the Arthritis and Rheumatism Branch is seeking an MD trained in membrane biochemistry and molecular genetics with an interest in investigating the early events in IgE mediated degranulation of mast cells at the molecular level. The Branch is part of the Intramural program of NIAMS with major interests in autoimmune, chronic inflammation and clinical investigations in autoimmune diseases. Applicants should have at least 3 years post-doctoral training experience. He/she will be considered for a permanent career or career conditional appointment at the GS-13 level ($48,162-78,787 p.a.). Applicants should send a curriculum vitae, bibliography, a short statement of research interests, as well as the names of three references to Henry Metzger, M.D., Director, Intramural Research Program, Bldg. 10, Rm. 9N240, NIAMS, NIH, 9000 Rockville Pike, Bethesda, MD 20892 (301-496-3375). U.S. Citizenship Required.

NIH is an Equal Opportunity Employer

POSTDOCTORAL SCIENTIST

Regulation of Apolipoprotein Gene Expression

The Upjohn Company has a position available in the Metabolic Diseases and Molecular Biology Research units to study the regulation of primate apolipoprotein gene expression. An M.D. or Ph.D. in biochemistry, physiology or related field, and prior training and experience studying the physiology and metabolism of lipoproteins are required. Some exposure to recombinant DNA techniques would be helpful, but is not essential since the successful candidate will receive training in this area. Support is available for 2 years.

Kalamazoo is a medium-sized Southwestern Michigan community with immediate access to a mix of excellent cultural, educational and recreational pursuits, including numerous lakes and a four-season climate. Upjohn offers a very competitive salary, commensurate with experience and an outstanding benefits program.

For confidential consideration, interested applicants may write, sending curriculum vitae to:

Robert A. Bowen, Jr.
Employment Representative
The Upjohn Company, 5044-41-1
7000 Portage Road
Kalamazoo, MI 49001

Please refer to Ad Number 22178-F in your correspondence.

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Upjohn

360
Pharmaceutical Research and Development

Genentech, Inc., a leader in the field of biotechnology, has the following opportunities available in Pharmaceutical R&D. In these positions, the successful candidates will be involved with laboratory studies leading to the development of new dosage forms and delivery systems for protein drugs. These studies will include the physical and chemical characterization of proteins, assessment of stability, formulation design, and the development of delivery systems.

Scientist

The successful candidate will hold a Ph.D. or equivalent in Physical Chemistry, Biochemistry, or Pharmaceutical Chemistry with heavy emphasis on physical/analytical concepts. Experience with proteins is desirable and a fundamental knowledge of analytical techniques (Spectroscopy, HPLC/SDS, gel electrophoresis, etc.) is essential, as are strong communication skills and the ability to interact and collaborate within a multidisciplinary group. 1-3 years’ industrial experience in pharmaceutical formulation R&D or 1-3 years’ postdoctoral experience in physical or analytical biochemistry are also required.

Research Associates/Assistants

The successful candidates will hold a BS/MS or equivalent in Physical Chemistry, Biochemistry, or Pharmaceutical Chemistry with heavy emphasis on physical and analytical concepts. Experience with proteins and a fundamental knowledge of analytical biochemistry techniques are essential. 1-3 years’ industrial experience in pharmaceutical formulation R&D or 1-3 years’ industrial/academic experience in physical or analytical biochemistry are also required.

Genentech, Inc. offers an excellent salary and benefits package coupled with the opportunity to make a significant contribution to our organization. For consideration, send your resume to Joyce Goulden, Human Resources Department 1000, Genentech, Inc., 460 Point San Bruno Blvd., South San Francisco, CA 94080. An equal opportunity employer.

RESEARCH SCIENTISTS

Integrated DNA Technologies, Inc. is seeking qualified scientists to conduct research in exciting new areas of clinical diagnostics and therapeutics. These positions will provide an opportunity for original research and leadership within a growing organization.

All positions require a Ph.D. degree; relevant postdoctoral or industrial experience would be desirable.

MOLECULAR BIOLOGIST: Experience in recombinant DNA technology and DNA probe hybridization systems, with some background in clinical or diagnostic microbiology.

VIROLOGIST: Experience in clinically relevant virology, recombinant DNA technology, and tissue culture; for research on antiviral therapeutics.

MOLECULAR GENETICIST: Experience in molecular biology and DNA hybridization technology as related to cancer/oncology or genetic disorders.

BIOORGANIC CHEMIST: Experience in nucleic acid, nucleotide or backbone modification, and affinity/solid support chemistry.

In addition to a stimulating scientific environment, we offer a competitive compensation/benefit package and relocation assistance. IDT is located in an attractive midwestern community and is in close proximity to a major university and medical school complex. Please send a resume and description of research experience to: Personnel, Integrated DNA Technologies, Inc., Tech Innovation Center, Oakdale Campus, Iowa City, IA 52242.

IDT INTEGRATED DNA TECHNOLOGIES, INC.

Plant Biotechnology Opportunities

The Plant Biotechnology Group of the Zeecon Research Institute, a division of Sandoz Crop Protection Corporation, is seeking scientists to join our research organization in Palo Alto. The following positions are available:

Sr. Scientist. Ph.D. Molecular Biologist with postdoctoral experience preferred. Candidates should have an interest in the problems of agriculture and have the ability to contribute to the solutions of these problems. Background or interest in plant science desirable.

Associate Scientist/Scientist. BA/BS or MA/MS in Molecular Biology, Biochemistry or related fields. Experience with recombinant DNA is desired.

Zeecon Research Institute has been a leader in innovative agricultural research for more than 15 years. The Institute has established research programs in herbicide design, plant biotechnology, insect physiology/biochemistry and chemistry. Research in plant biotechnology supports the plant breeding efforts at Northrup King Seeds, Rogers Brothers Seeds, and other Sandoz seed companies. Our research environment encourages interaction with other scientists throughout the world.

To apply for this position, please send a letter describing your interests, a curriculum vitae and the names of three references to:

SANDOZ CROP PROTECTION CORPORATION
Zeecon Research Institute
Human Resources Department
975 California Avenue
Palo Alto, CA 94304
AA/EOE
RESEARCH AND TEACHING FACULTY POSITIONS IN PHYSICAL OCEANOGRAPHY

Applications are invited for one research faculty position and one tenure-track academic faculty position in the Division of Meteorology and Physical Oceanography, School of Marine and Atmospheric Science, University of Miami. Rank and salary will be negotiated depending on qualifications. The applicant must hold a Ph.D. in geophysical oceanography or a related discipline.

The division pursues wide-ranging research programs in both meteorology and physical oceanography, including atmospheric science, numerical and theoretical modeling, remote oceanography, satellite oceanography, and air-sea interactions. The successful candidate will be available immediately and should be available in August.

Applicants should preferably have several years of experience in the planning and execution of oceanographic field experiments, and a record of scholarly publications which demonstrate the ability to analyze and interpret oceanographic observations; however, applicants in other areas of physical oceanography are also encouraged to apply. Duties of the academic faculty position include teaching graduate level courses in physical oceanography and supervising graduate students. Send curriculum vitae, publication list, and names of three references by 15 June 1988 to: Dr. Clas Rooth, Search Committee Chairman, Division of Meteorology and Oceanography, University of Miami, 4600 Rickenbacker Causeway, Miami, FL 33149-0001. The University of Miami is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE to conduct research for the Environmental Protection Agency. Responsibilities include supervising technical and administrative staff, developing new computer programs, and writing papers. A Ph.D. in environmental science or a related field is desirable. Background in laboratory and field research is essential. Salary: $30,000-$35,000. Interested candidates should contact: Dr. James E. Kennedy, Program Director, University of Florida, Gainesville, FL 32610. EEO/AA Employer.

POSITIONS OPEN

Johns Hopkins School of Medicine. POSTDOCTORAL RESEARCHER position immediately available for study of acetylcholine receptors (AChRs) in skeletal muscle cells in a variety of model systems in vivo and in culture. Ph.D. or M.D. and some previous experience in related areas required. Salary $15,000-$20,000. Send curriculum vitae to: Daniel B. Driscoll, M.D., Ph.D., Department of Neurology, Johns Hopkins Medical Institutions, 600 North Wolfe Street, S-119 Meyer Building, Baltimore, MD 21205.

The Center for Bioanalytical Research (CBAR), University of Kansas, has openings for POSTDOCTORAL RESEARCHERS in areas related to bioisosteric replacements, radiochemistry, and instrumentation (Ph.D.) in analytical chemistry, physical chemistry, biochemistry, biotechnology, or closely related field. Experience in HPLC, spectroscopy, analytical instrumentation and/or experience desirable with background in biochemistry helpful. $18,000 to $22,000 per year. Applicants should send curriculum vitae and three letters of recommendation to: Dr. Thomas W. Kawan, CBAR, 242 Constant Avenue, Lawrence, KS 66046. Affirmative Action/Equal Opportunity Employer.

NRS POSTDOCTORAL TRAINEESHIP to study repressor binding of nascent lipoproteins in human liver cells and regulation of lipoprotein metabolism by specific antibodies. Relevant experience of knowledge of ligand and blotting and cell culture techniques helpful. Available July 1988, U.S. citizen or resident only. Send curriculum vitae and three references to: Dr. Rody Ford, University of Texas Southwestern Medical Center, Dallas, TX 75235. Affirmative Action/Equal Opportunity Employer.

RECLAMATION RESEARCH DIRECTOR

The Florida Institute of Phosphate Research seeks an individual to be responsible for the direction and implementation of its contracts and in-house research program in the areas of phosphate surface mine reclamation. The candidate should possess at least a B.S. in biology, ecology or a related field and have at least 4 years of experience, preferably with industry and development. An advanced degree is preferred.

Submit a complete State of Florida Employment Application to: Name and the names and telephone numbers of at least three references to: Florida Institute of Phosphate Research, 1855 West Main Street, Bartow, FL 33830. Closing date is 29 April 1988.

VERTEBRATE PHYSIOLOGIST

Indian State University, Department of Life Sciences invites applications for a tenure-track appointment in vertebrate physiology at the level of assistant/associate professor. Responsibilities include teaching courses in cardiovascular, respiratory or physiological anatomy. Close to the end of the academic year.

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

VISION SCIENCE, TENURE-OR TENURE-TRACK POSITION available immediately to join strong research-oriented group of vision scientists. Applicants must have active research programs and willingness to participate in graduate and undergraduate teaching in neuro-ophthalmology and physiology and pharmacology to ophthalmology students, Ph.D. required. Rank and salary dependent upon qualifications. Application materials, 4 copies, to be submitted. All information is treated confidentially. Send letter of application, including statement of research interests, curriculum vitae, and names of three individuals willing to serve as references to: Dean, College of Life Sciences and Agriculture, University of Missouri—St. Louis, 8001 Natural Bridge Road, St. Louis, MO 63121. Women and minorities are encouraged to apply. An Equal Opportunity Employer. Deadline: 6 May 1988.

Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

Immediate RESEARCH OPPORTUNITIES in carcinogenesis at the postdoctoral and junior/senior research associate level, involving studies of dietary manipulation on the development of colon cancer in rats. Required technical skills include oral and written communication skills, as well as proficiency with flow cytometry, RIA, ELISA, enzymology, and primary culture. Minimum of 3 years relevant laboratory experience required. Qualifed and serious candidates should contact: Dr. Edward B. Halverson, University of Minnesota, 1400 Medical Science Building, Room 321, Minneapolis, MN 55455. An Equal Opportunity/Affirmative Action Employer.

TENURE-TRACK FACULTY POSITIONS IN MOLECULAR PHARMACOLOGY

THE UNIVERSITY OF MINNESOTA

Applications are invited for positions of assistant professor in the Department of Pharmacology, School of Medicine. Successful candidates are expected to establish an independent research program in the area of molecular pharmacology and to participate in departmental teaching responsibilities. Requirements include a Ph.D. or M.D., and have postdoctoral experience. Candidates with a strong research background in pharmacology or related areas of molecular pharmacology are preferred. Applicants must demonstrate involvement in quality research publications and review articles. Salary: $32,000-$35,000.

Applications will be accepted until the positions are filled. Interested candidates should send curriculum vitae, brief statements of research interests and plans, and three letters of recommendation to: Dr. J. W. Miller, Professor and Chairman, Department of Pharmacology, School of Medicine, University of Minnesota, 3-260 Millard Hall, 435 Delaware Street S.E., University of Minnesota, MN 55455. Deadline for receipt of applications is 15 July 1988. Applications will be accepted until the positions are filled. The University of Minnesota is an Equal Opportunity/Affirmative Action Employer and an Affirmative Action Employer.
Scientists Postdocs

Genentech, Inc., a leader in the field of biotechnology, is currently seeking the following individuals.

Scientist
Retrovirus Studies
An individual is sought to participate in state-of-the-art research on endogenous and exogenous retroviruses of mammalian cell lines.
The successful candidate will have a Ph.D. and postdoctoral research in the molecular biology of retroviruses with experience in recombinant DNA techniques.

Postdoctoral Fellow
Cell Biology
An individual is sought to pursue a project dealing with the effects of growth factors on gonadal/pituitary cells and the regulation of secretion of such factors in the male reproductive system or other aspects of growth factor function.

Requirements include a Ph.D. and 1-2 years postdoctoral experience in endocrine physiology, reproductive biology or mode of action of growth factors. Cell culture and/or basic cell biology skills are also required.

Genentech, Inc. offers an excellent salary and benefits package coupled with the opportunity to make a significant contribution to our organization. For consideration, send your resume to Joyce Goulden, Human Resources, Genentech, Inc., 460 Point San Bruno Blvd., South San Francisco, CA 94080. Please indicate Department 1464 for the Scientist position and Department 2149 for the Postdoc. An equal opportunity employer.

Sr. Engineer/Staff Scientist

You will be responsible for controlled parenteral drug delivery systems activities (such as programmable pumps). This includes system design, fabrication and testing. Requires MS or PhD in Mechanical or Chemical Engineering with 3-5 years of hands-on experience with medical infusion devices. Your background should include design of infusion and other medical devices, physicochemical characterization of polymers and polymer processing techniques. Clean room operation skills and experience with clinical testing and regulatory aspects of medical devices would be helpful.

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Here's how you can be part of the team: send your resume to ALZA Corporation, Employment Department, 950 Page Mill Road, P.O. Box 10950, Palo Alto, CA 94303-0802 or call (415) 494-5214. We are an equal opportunity employer.
University of Pittsburgh

DEAN, GRADUATE SCHOOL OF PUBLIC HEALTH

The University of Pittsburgh seeks applications and nominations for the position of Dean, Graduate School of Public Health. The School is one of six schools of the health sciences on the campus of the University and its affiliated hospitals. The School currently enrolls 607 full- and part-time students (375 FTEs), studying for master's and doctoral degrees in the fields of biostatistics, human genetics, epidemiology, community health services, health administration, infectious diseases and microbiology, environmental health, occupational health, and radiation health. The Dean is responsible to the Senior Vice President for the Health Sciences. The annual expenditures of the School, including sponsored research, are in excess of $17,000,000.

Candidates must have had substantial experience in the academic aspects of at least one of the fields of study at a level equivalent to a full professorship and preferably be engaged currently in research pertinent to that field.

Nominations or resumes should be sent before July 31, 1988, to:

George M. Bernier, Jr., MD
Chairman, Search Committee for Dean, Graduate School of Public Health
M-246 Scaife Hall
University of Pittsburgh
Pittsburgh, PA 15261

An equal opportunity, affirmative action employer

ASSOCIATE SCIENTIST IN HYBRIDOMA TECHNOLOGY

Eli Lilly and Company, an established leader in pharmaceutical research, has a research position open at the associate level for applicants with a B.S. or M.S. degree in biochemistry or related disciplines. The successful candidate will have several years of experience in research applications of biotechnology. Specifically, the candidate should have direct experience with state-of-the-art hybridoma technology, procedures for the purification and characterization of proteins/glycoproteins, and have expertise in immunochemical techniques. A working knowledge of recombinant DNA technology is also desirable. The successful candidate will be a highly motivated individual who can work independently.

Interested candidates should send a cover letter and a resume with a detailed description of research experience to:

Mr. Robert L. Nist (AHT)
Scientific Recruitment Representative
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, Indiana 46285
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BIOCHEMISTRY SOFTWARE DEVELOPMENT

APPLIED BIOSYSTEMS, INC., is the leading producer of automated instrument/reagent systems for biotechnology research.

We are seeking a SOFTWARE ENGINEER to develop analysis and system software for our fluorescence based DNA sequencing instruments. Blend your knowledge of signal processing, software development, DNA sequencing and mathematics to advance state-of-the art DNA sequencing.

We need you to design, develop and test software for signal analysis and peak identification and implement improvements in the user interface and system software.

If you are innovative and self-motivated, communicate well with multidisciplinary teams and have a BS/MS in Biochemistry or Molecular Biology and/or Computer Science/EE with 3+ years experience programming IBM pc’s or Macintosh’s in C or Pascal, we would like you to join our growing company.

ABI offers a competitive salary and comprehensive benefits package. Send resume and salary history to Personnel/Applied Biosystems, Inc., Dept. of Software, 850 Lincoln Centre Dr., Foster City, CA 94404-1155. We are an Equal Opportunity Employer.

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Postdoctoral Research Associates

The Agricultural Research Service as the principal scientific research agency of USDA, conducts research to produce more and better food and fiber; to control insect pests and weeds safely; to get food to consumers in better condition; to improve human nutrition; to help protect soil, water, and air, and to find new uses for agricultural commodities. Much of the work is on the cutting edge of each discipline—biotechnology (including molecular biology, genetic engineering, and membrane research), application of theories of artificial intelligence to computer technology, and innovative approaches to pest control through insect neurochemistry and the use of pheromones.

ARS is currently recruiting for 100 postdoctoral positions throughout the country. Opportunities exist in the following research areas:

- Genetics
- Biochemistry
- Chemistry
- Microbiology
- Animal Science
- Entomology
- Plant Physiology
- Plant Pathology
- Agronomy
- Soil Science
- Nutrition

Successful candidates will be hired under excepted appointments up to 2 years in duration. Salary for these GS-11/12 positions ($27,716 to $33,218) will be based on qualifications and experience.

For information on positions available and application procedures, write to:

N. L. BAKES
Personnel Division (S)
USDA/ARS/Barc-W
Bldg. 003, Room 101
Beltsville, MD 20705

ARS is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

Postdoctoral Scientists
Arachidonic Acid Metabolism in Cystic Fibrosis/Phospholipases

The Immunology Department of Smith Kline & French Laboratories, located in suburban Philadelphia, Pennsylvania, is seeking two (2) Postdoctoral Scientists to participate in a research program in an environment designed to foster creative innovative research and to promote personal and professional growth.

We consider postdoctoral studies to be of major importance in an individual's career and encourage publication of findings in leading journals and a full interaction with the scientific community. Our postdoctoral appointments are normally 2 years in duration.

ARACHIDONIC ACID METABOLISM IN CYSTIC FIBROSIS

CANDIDATES ARE REQUIRED TO HAVE:

- Ph.D. with 0-2 years of postdoctoral experiences.
- Training and/or experience in leukotriene biosynthesis, phospholipid metabolism and arachidonic acid cascade.
- Experience and/or knowledge in isolation, characterization and purification of enzymes or proteins.
- Experience and/or knowledge in general biochemical and molecular biological techniques in the characterization of enzymes and genes.

THE SUCCESSFUL CANDIDATE WILL:

- Utilize polyclonal antibody and cDNA probes to study the transcriptional translational and post-transcriptional regulation of genes and enzymes.
- Compare the regulatory mechanisms of the target genes and enzymes derived from normal and disease states.
- Interact with scientists of various disciplines and publish the research results in scientific journals.

PHOSPHOLIPASES

CANDIDATES ARE REQUIRED TO HAVE:

- Ph.D. with 0-2 years of postdoctoral experiences.
- Training in protein biochemistry, biochemical pharmacology or equivalent molecular biological experiences.
- Experience and/or practical knowledge in phospholipid/Ca\textsuperscript{2+} metabolism and signal transduction mechanisms.
- Experience and/or knowledge in phospholipase A\textsubscript{2} and phospholipase C activation and metabolism.

THE SUCCESSFUL CANDIDATE WILL:

- Participate in isolation of characterization of proteins and enzymes involved in phospholipid metabolism.
- Characterization of pharmacological and/or biochemical important agents in phospholipid metabolism.
- Characterization of cellular functions of phospholipid metabolizing enzymes.

We offer excellent compensation and benefits and an attractive relocation policy. For confidential consideration, send your C.V. and names of three references to Barbara J. Schwartz, 50033, Associate Employment Administrator, Smith Kline & French Laboratories, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an equal opportunity employer, M/F/H/V.
POSITIONS OPEN

ZOOLOGIST: The Department of Biology, University of Central Arkansas, invites application for a tenure-track assistant professor position to begin 1 January or 15 August 1989. Recent Ph.D. or postdoctorates are encouraged to apply. The individual will teach both upper division vertebrate and invertebrate zoology, as well as biology for non-science majors. Preference will be given to applicants with expertise in systematics and evolution. Submit curriculum vitae, copies of undergraduate and graduate transcripts, a brief description of teaching philosophy and research career goals, and three letters of recommendation to: Dr. Edmond Griffin, Chairman, Department of Biology, University of Central Arkansas, AR 72102. Telephone: 501-450-3146. The deadline for receipt of applications is 1 July. The University of Central Arkansas is an Equal Opportunity Employer.

GRANTS

The American Health Assistance Foundation is accepting 2-year GRANT applications for Alzheimer's disease research. The maximum award is $100,000 per year. Deadline: 30 October 1988. For further information, please write to:
American Health Assistance Foundation
c/o Mrs. Charlene S. Lehman
15825 Shady Grove Road, Suite 160
Rockville, MD 20850

SYMPOSIUMS

ENDOCRINE FUNCTION AND AGING
14 and 15 September 1988, Clarion Hotel, St. Louis, Missouri. Symposium will include recent information regarding changes in hormone secretion and action with age, and (ii) apply this to endocrine disorders in the elderly. Topics will include diabetes, osteoporosis, stress, hypertension and impotence. Program will include invited speakers, contributed papers, and panel discussions. Contact: Conference Secretary, Geriatric Center (111G-JB), VA Medical Center, St. Louis, MO 63118. Telephone: 314-894-6810.

FIFTH INTERNATIONAL SYMPOSIUM ON THE IMMUNOLOGY OF PROTEINS AND PEPTIDES VACCINES MECHANISM, DESIGN, AND APPLICATIONS
2 to 5 October 1988
Chateau Lake Louise
Alberta, Canada

For information: Dr. M. Z. Atassi, Baylor College of Medicine, Texas Medical Center, Houston, TX 77030.

CONFERENCES

AMERICAN ASSOCIATION FOR CANCER RESEARCH
79TH ANNUAL MEETING

CONFERENCE

NEUROLOGICAL MUTATIONS IN THE MOUSE
Bar Harbor, Maine
28 September to 2 October 1988

PROGRAM

TRAINING ESR SPECTROSCOPY
The National Biomedical ESR Center offers a 2-week intensive training in ESR spectroscopy. The program, sponsored by NIH, is designed to provide hands-on opportunities in many advanced ESR techniques for graduate students and junior faculty members who have had some previous experience working in ESR. The award includes travel expenses up to $500. Send a letter and one-page research plan (student applicants should include a letter from graduate advisor) to: Dr. James M. Lai, National Biomedical ESR Center, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226. Telephone: 414-257-8574. Equal Opportunity/ Affirmative Action Employer M/F/H.

RESEARCH GRANTS

RESEARCH INQUIRIES INVITED
The Smokeless Tobacco Research Council, Inc. invites inquiries regarding grant applications. The Council sponsors independent research into questions of smokeless tobacco and health. Research support is through a program of grants. Grants may be for up to $5,000. Applications will be reviewed by the Scientific Advisory Board to the Council and will be judged solely on the basis of scientific merit and relevance. Deadlines for submission of grant applications are 31 December for July funding and 30 June for January funding. Address inquiries and requests for applications to: The Smokeless Tobacco Research Council, Inc., 420 Lexington Avenue, New York, NY 10171. Telephone: 212-697-3485.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP
MOLECULAR IMMUNOLOGY UNIVERSITY OF CALIFORNIA SAN FRANCISCO (UCSF)
M.D. or Ph.D. for 2 to 3 years to begin on/after 2 July 1988. Molecular/cellular biology of mast cell peptide mediators in the lung and lymph node function. Studies of peptides, receptors, genetic messages. Curriculum vitae and references to: Kate, U-426, University of California, San Francisco, CA 94143-0724.

GRADUATE RESEARCH FELLOWSHIPS IN MOLECULAR GENETICS, BIOANALYTICAL CHEMISTRY, TOXICOLOGY, VISCERAL AND NUTRITIONAL BIOCHEMISTRY AT OREGON STATE UNIVERSITY.
Competitive First-Year Graduate Fellowships are to be awarded for research in a department with diverse research, but a common interest in the impact of biological and chemical technology. Fellows will be awarded graduate research assistantships, $10,000 per year, and tuition remission for 1988 to 1989. They will select three laboratories in the Department of Agricultural Chemistry for research and a fourth for teaching. Applications will be evaluated by the Graduate Program Committee. Oregon State University, Corvallis, OR 97331. Application deadline is 15 January 1989. Submit letters of recommendation and GRE scores, and three letters of recommendation sent immediately. Telephone: 503-754-3791. Oregon State University is an Affirmative Action/Equal Opportunity Employer and Complies with the Rehabilitation Act of 1973.

FELLOWSHIPS

POST- AND PREDOCTORAL TRAINEE-SHIPS IN TOXICOLOGY. NIH-sponsored research training program. Active research areas in mammalian systems: biochemistry and xenobiotic metabolism, carcinogenesis and mutagenesis, neurotoxicology and behavior, pulmonary and inhalation toxicology, and human toxicology. No research in the areas of: aquatic or forensic toxicology, ecological aspects, or invertebrate systems. Only U.S. citizens are eligible. Women and minorities are encouraged to apply. Dr. David Holbrook, curriculum in Toxicology, 7270, Faculty Laboratory Office Building, University of North Carolina, Chapel Hill, NC 27599. Telephone: 919-966-4685. Equal Opportunity/Affirmative Action Employer.

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   Our electrically-actuated Rheodyne injection valve eliminates the cumbersome gas tanks, solenoid valves and tubing required to drive pneumatic valves. Besides simplifying your HPLC system, you'll appreciate the increased reliability and reduced downtime.

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   Some auto-injectors offer only basic injection functions. Gilson adds random position access, unlimited replicate injections, virtually eliminates sample-to-sample carryover to assure reliable results.

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5. Rinsing function eliminates sample-to-sample carryover.
   Between each injection, the 231/401 rinses the injection port, sample loading line and the outside of the needle. This eliminates sample-to-sample carryover to assure reliable results.

6. Unique detector feedback verifies system operation.
   Unlike any other auto-injector, the Gilson 231/401 monitors the detector signal. It automatically stops the run if the baseline shifts or if an expected peak is not detected. It also dilutes concentrated samples if the height of a peak is off-scale.

7. Stationary rack system ensures trouble-free operation.
   Carousel racks that rotate into position are subject to frequent mechanical failures. The Gilson 231/401 offers a more reliable stationary rack system with fewer moving parts. Plus, 21 different racks are available to handle up to 120 samples in popular vial sizes.

These are just a few of the features you'll find in the Gilson 231/401 Auto-Sampling Injector.

To learn about others and to find out how to save time and money in your lab, mark the reader service number below for a free brochure. Or better yet, contact us for a demonstration. Call us toll-free at 800-445-7667.

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