AN INVITATION
TO SUBMIT NOMINATIONS FOR THE 1990
KING FAISAL INTERNATIONAL PRIZE
IN SCIENCE

The General Secretariat of the King Faisal International Prize has the pleasure of inviting universities, academies, educational institutions and research centers throughout the world to nominate qualified candidates for

the King Faisal International Prize in Science, in the field of

"CHEMISTRY"

1. A nominee (a living person) must have accomplished an outstanding academic work on the Prize topic; benefiting mankind and enriching human thought in the prize field.
2. The work submitted must be original and published.
3. The work submitted must not have been previously awarded a prize by any international organization.
4. Nominations by individuals or political parties will not be accepted.
5. Nominations should include:
   (a) An official letter by a recognized educational institution, to each nominee, indicating the nominated works.
   (b) Typed C.V. of the nominee's academic background, experience and published works.
   (c) Ten copies of the works submitted for nominations.
   (d) A copy of the nominee's educational certificates.
   (e) Three recent colored photos 10 x 15 cm (4" x 6").
   (f) Full address and telephone number.
6. Nominations will be evaluated by a Selection Committee consisting of highly recognized specialists in the field.
7. More than one person may share the Prize.
8. The winners' names will be announced in January 1990, and the Prize will be awarded in an official ceremony at the headquarters of the King Faisal Foundation in Riyadh, Saudi Arabia, at a later date.
9. The Prize consists of:
   (a) A certificate in the winner's name containing an abstract of the work that qualified him/her for the Prize.
   (b) A gold medal.
   (c) A sum of three hundred and fifty thousand Saudi Riyals, (approximately US $93,333)
10. The latest date for receiving the complete nomination requirements will be (1st of August, 1989).
11. No nomination papers or works will be returned to the senders, whether or not the nominee was awarded the prize.
12. All correspondence must be sent by registered airmail to:

The General Secretariat, King Faisal International Prize
P.O. Box 22476, Riyadh 11495, Kingdom of Saudi Arabia
Telephone: 4652255, Telex: 404667 PRIZE SJ,
Fax No: 4658665, Cable: JAEZAH

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- Downloads references from MedLine data bases such as NLM, BRS and DIALOG (optional)

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Circle No. 54 on Readers' Service Card

Brain Structure, Learning, and Memory
Edited by Joel L. Davis and Robert W. Newburgh, Office of Naval Research, and Edward J. Wegman, George Mason University

This new book, based on a AAAS Annual Meeting symposium, explores the connections between cellular and computational approaches to understanding the neural basis of learning and memory. Incorporating such diverse ideas as invertebrate and computer-based models, cerebellar involvement in motor engrams, learning, and the sensory sciences; nonstationary point processes; and models closely tied to vertebrate neural nets, the contributors not only shed new light on important brain functions but also provide an example of how neuroscience research should be structured.

$35.00: AAAS members $28.00 (include membership number from Science), 301 pp., 1988. AAAS Selected Symposium 105.
Order from: Westview Press, Dept. AAAS, 5500 Central Avenue, Boulder, CO 80301. (Add $2.50 postage and handling for the first copy, 75 cents for each additional copy; allow 4-6 weeks for delivery.)

Published by Westview Press for AAAS
**POSITIONS OPEN**

**ASSISTANT PROFESSOR UNIVERSITY AT PITTSTON PITTSBURGH SCHOOL OF MEDICINE DEPARTMENT OF PATHOLOGY**

The Department of Pathology at the University of Pittsburgh School of Medicine has two openings at the assistant professor level for positions with a Ph.D. and postdoctoral training. A strong background in cloning and hybridization methods is desirable. Responsibilities will include the development of an independent research program, preferably in the area of JTLA-1 genomic, as well as teaching in the Department’s Graduate Program. The position is available 1 July 1989. Send application, curriculum vitae, and three letters of reference to: Dr. Thomas J. Gill III, Chairman, c/o A. Roman-Koller, University of Pittsburgh School of Medicine, Department of Pathology, 776深入开展街, Pittsburgh, PA 15261. The University of Pittsburgh is an Equal Opportunity Employer.

**ASSISTANT PROFESSOR UNIVERSITY OF MINNESOTA**

The Department of Agronomy and Plant Genetics is requesting applications for a tenure-track, 12-month research and teaching position in weed ecology. Successful candidates will develop an agronomic weed research program. Research will encompass weed problems in agronomic crops, emphasizing ecological principles of weed management, the development of principles of weed competition, economic thresholds of weeds, and weed seed population dynamics. The individual will cooperate in developing integrated approaches to weed management that will provide new directions in weed management and maintain the profitability and sustainability of farming enterprises. Collaboration research with other faculty is expected. The position involves graduate student training and graduate/undergraduate teaching in weed ecology and plant taxonomy.

Minimum qualifications include Ph.D. in a plant science by date of appointment and documented research experience in terrestrial plant ecology or weed population dynamics. Salary is commensurate with qualifications and experience. Benefits include health and disability insurance, social security, faculty retirement (2-year waiting period), and opportunities for research and travel. The University of Minnesota is an Equal Opportunity Employer and an Affirmative Action Employer and encourages applications from women and minorities.

**ASSISTANT PROFESSOR MICROSCOPIST-GENETICIST**

The Biological Sciences Department at the University of New Mexico, Albuquerque, is seeking a geneticist-microscopist with expertise in molecular biology to take the position of Assistant Professor in Microscopy and Genetics. The successful candidate will be expected to develop an independent research program in the area of molecular biology and genetics. The position requires a Ph.D. in a relevant field and at least 2 years of postdoctoral experience. Salary is negotiable.

**ASSISTANT/ASSOCIATE PROFESSOR OF BIOLOGY**

The Department of Biology at the University of Illinois at Urbana-Champaign is seeking a faculty member at the Assistant/Associate Professor level in the area of cellular and molecular biology. Responsibilities include teaching undergraduate and graduate courses, maintaining an active research program, and providing service to the university. A Ph.D. in a relevant field is required, and postdoctoral experience is preferred. Salary is competitive and commensurate with qualifications. Applications should be submitted by November 1, 1989, and will be considered until the position is filled. Send curriculum vitae, a statement of research interests, and three letters of recommendation to: Department of Biology, University of Illinois, Urbana, IL 61801. The University of Illinois is an Equal Opportunity Affirmative Action Employer.

**ASSISTANT ASSOCIATE PROFESSOR OF BIOLOGY**

The Department of Biology at the University of Washington is seeking an Assistant/Associate Professor at the rank of Assistant/Associate Professor in the area of developmental biology. Responsibilities include teaching undergraduate and graduate courses, maintaining an active research program, and providing service to the university. A Ph.D. in a relevant field is required, and postdoctoral experience is preferred. Salary is competitive and commensurate with qualifications. Applications should be submitted by December 1, 1989, and will be considered until the position is filled. Send curriculum vitae, a statement of research interests, and three letters of recommendation to: Department of Biology, University of Washington, PO Box 356880, Seattle, WA 98195-6880. The University of Washington is an Equal Opportunity/Affirmative Action Employer.
POSITIONS OPEN

The Department of Biology, The University of Alabama, invites applications for one or more tenure-track positions in molecular biology/molecular genetics at either the ASSISTANT OR ASSOCIATE PROFESSOR level. The successful candidate will have a Ph.D. in life sciences and postdoctoral experience in molecular biology and to supervise teaching assistants. The successful candidate will have a Ph.D. in life sciences and postdoctoral experience in molecular biology and to supervise teaching assistants. Ph.D. in life sciences required with strong interest and demonstrated excellence in undergraduate teaching. Nine-month tenure-track appointment beginning in the department on August 1, 1989. Salary competitive; excellent fringe benefits. Send curriculum vitae, a letter of application, and three letters of recommendation to: Kenneth R. Ham, Committee Chair, Department of Biology, The University of Alabama, Box 870344, Tuscaloosa, AL 35487-0344. The University of Alabama is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSOR — RADIATION ONCOLOGY

Facilities located in a new Cancer Hospital, occupying 30,000 square feet, include three Linacs, plus dedicated intraoperative Linac, hyperthermia, HDR Remote Afterloading, dedicated CT scanner, two simulators, conventional and two 3-D Treatment Planning Workstations. Requirements: At least 1 year of experience in clinical radiation oncology with demonstrated interest in academic medicine. Send resumes to: Dr. Reinhard A. Gusenbauer, Radiation Oncology, Ohio State University, 410 West 10th Avenue, Columbus, OH 43210.

ASSOCIATE DIRECTOR FOR TECHNOLOGY TRANSFER

The University of Georgia is accepting applications for the position of Associate Director for Technology Transfer. This position operates within the Industrial Interface Program and is responsible for marketing and licensing intellectual property generated by University researchers. Applicants should have a strong working knowledge of research and some business experience, preferably related to the protection and licensing of intellectual property. A working knowledge of computer science would be desirable. Submit application and résumé by 19 May 1989 to: Dr. John Ingle, Director, Industrial Interface Program, University of Georgia, Office of the Vice President for Research, Athens, GA 30602. An Equal Opportunity/Affirmative Action Institution.

ASSOCIATE RESEARCH SCIENTIST: Perform research in the area of transposition and site-specific recombinational of bacterial transposons in order to study and analyze the mechanisms of these processes in vivo and in vitro. Must have a Ph.D. in molecular biology or biochemistry. No specific experience required. Requires a strong background in classical and modern bacterial genetics; microbiology; protein expression and analysis; DNA sequencing and mutagenesis (including computer analysis); molecular biology; and bacterial conjugation as evidenced by authored publications on scientific journals or 2 years of independent research in the field. Send curriculum vitae, a letter of interest, and three letters of recommendation to: Keith A. Crutcher, Ph.D., Research Division, Department of Neurosurgery, University of Cincinnati, Cincinnati, OH 45267.

Full-time CYTOTOGENETICS SPECIALIST to conduct prenatal diagnosis that includes chromosome analysis of cells from amniotic fluid cells, peripheral blood cells, villous chorion cells, fetuses tissue culture cells using microscopy. Must perform high resolution banding technique, replication banding, fragile X analysis, R-banding using fluorescent microscopy and computer-assisted chromosome analysis. Involved in clinical aspects of care of 150-200 patients per year. $22,000 per year. Must have Bachelor's degree in biology and minimum of 3 years of experience in the field of cytogenetics. Send curriculum vitae and three letters of recommendations to: Dr. C. H. Wing, Johns Hopkins Hospital, 1725 Clarendon Avenue, Avondale Estates, GA 30002, or to the nearest Georgia Job Service Center. Control #GA 5346447.

DIRECTOR, DEPARTMENT OF BIOPHYSICS

The Johns Hopkins School of Medicine invites applications for the position of Professor and Director, Department of Biophysics. The department is expected to expand its research and training programs. The successful candidate will have a distinguished record of scientific productivity in the field of structural biology. An earned doctorate and evidence of leadership ability are required. Interested candidates should send their curriculum vitae, bibliography and the names of three references to: Hamilton O. Smith, M.D., Director, Biophysics Search Committee, Johns Hopkins School of Medicine, Room 502A Preclinical Teaching Building, 700 North Wolfe Street, Baltimore, MD 21205, Equal Opportunity/Affirmative Action Employer.

HOWARD UNIVERSITY

DIRECTOR OF UNIVERSITY LIBRARIES

Applications are now being accepted for this position. Appointments will begin 1 July 1989. Applicants should have: a MLS degree or equivalent from an ALA- accredited institution and a second Master's degree or higher; a doctorate in an academic discipline is desirable; a minimum of 10 years of professional experience, including at least 5 years of administrative experience in a major academic library. Salary will be commensurate with qualifications and experience. Preliminary screening will begin 1 April 1989. Applications and nominations should be sent to: Dr., William A. Sadler, Chairma, Review and Advisory Committee, Graduate School of Arts and Sciences, Office of the Dean, Howard University, Washington, DC 20059. Applicants must include a current résumé and names, addresses, and telephone numbers of at least three references. To expedite application, three recommendation letters are to be sent to the address above. Howard University is an Affirmative Action/Equal Opportunity Employer.

ENDOWED CHAIR — CANCER RESEARCH

This is a senior position for an established investigator who will conduct his/her own program of research and collaborate with other basic and clinical investigators in the new Arthur G. James Cancer Hospital and Research Institute at The Ohio State University College of Medicine.

The Wing Chair of Surgical Oncology will support a Ph.D. and an M.D. at the associate professor level in the Department of Surgery whose primary interest is directed toward the development of the modern tools of cellular and molecular biology and their applications to the therapeutic treatment of cancer.

The Committee will begin reviewing nominations and applications 1 April 1989 and continue until a candidate is selected. Please supply curriculum vitae and names and telephone numbers of three references: William B. Farrar, Chairman, Surgical Oncology, Doan Hall-N-907, 410 West 10th Avenue, Columbus, OH 43210.

The Ohio State University is an Equal Opportunity Employer.

ENVIRONMENTAL ENGINEER

Texagulf Inc., Aurora, North Carolina, has an immediate opening for an environmental engineer. The ideal candidate will have a M.S. in environmental engineering or environmental science, and have an interest in dealing with groundwater studies and containment and control programs for solid and hazardous waste disposal. Responsibilities will include staying current on environmental agency regulations, obtaining regulatory permits and developing compliance programs. Excellent salary and benefit package. If interested, send resume to: Recruiting Supervisor, Texagulf Inc., P.O. Box 203, Aurora, NC 27806

ENVIRONMENTAL SPECIALIST IV

Palatka, Florida. Salary $29,000, the St. Johns River Water Management District has an opening in applied riverine or estuarine ecology. Primary responsibility is to provide scientific direction in the development and implementation of a program to restore and preserve the lower basin of the St. Johns River. Bachelor's degree in the biological sciences and 7 years experience is required. If interested, contact: Advanced degree with specialization in estuarine/riverine ecology/sediment-water column interactions preferred. Interested applicants should send curriculum vitae, to: St. Johns River Water Management District, Office of Employee Relations, P.O. Box 1429, Palatka, FL 32178-1429. Equal Employment Opportunity/Affirmative Action Employer/Veterans Preference.

EXPERIMENTAL PATHOLOGY

The Department of Pathology, Emory University School of Medicine, is expanding its programs in experimental pathology. We seek candidates at the ASSISTANT OR ASSOCIATE PROFESSOR level, tenured or tenure-track to undertake research in the areas of fundamental immunobiology, autoregulation, transplantation biology, and tumor immunity. Experience with modern techniques of molecular biology and cellular immunology would be important determining factors. The incumbent is expected to undertake an active program of research in experimental pathology. Candidates who have successfully competed for peer-reviewed grants, or have ongoing programs, which would lead to such support, will receive preference. The incumbent will have the opportunity to teach at the Ph.D. and/or Master's level in experimental pathology. Please send curriculum vitae and names of five references to: Kenneth W. Sell, M.D., Ph.D., Professor and Chairman, Department of Pathology and Laboratory Medicine, 703 Woodruff Memorial Building, Atlanta, GA 30322. Emory University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.
Applications and nominations are invited for the position of Chairperson of the Department of Biochemistry at the Johns Hopkins School of Hygiene and Public Health. The general research interests of the current faculty include: Biochemistry—enzyme structure and mechanisms; peptide chemistry; chromatin and nucleic acid chemistry; mechanisms of nucleic acid replication, recombination and repair; structure and function of cell surface molecules; somatic mutation and antibody diversity; cell metabolism; influence of nutrition in carcinogenesis. Biophysics—structure and interaction of biopolymers in cells; synthesis of oligo- and polynucleotides of designed structure and sequence; structure and function of the mammalian genetic apparatus; development of antiviral and chemotherapeutic agents; basic mechanisms of carcinogenesis; cellular and molecular mechanisms of aging. The Department also participates in a University-wide concerted effort in areas of macromolecular assemblies and interactions for which it has received considerable Federal and private support.

Candidates must have an outstanding record of research achievement in any area of biochemistry, biophysics or molecular biology, whether or not the area is currently represented in the Department; and the desire and ability to provide strong leadership to an already excellent, vibrant, growing department in the interdisciplinary setting of the School of Hygiene and Public Health.

Interested persons are encouraged to submit a curriculum vitae to:

Dr. Barry Zirkin
Chairman of the Biochemistry Search Committee
Division of Reproductive Biology
The Johns Hopkins School of Hygiene and Public Health
615 North Wolfe Street
Baltimore, MD 21205

The Johns Hopkins University is an Equal Opportunity employer.

ASSOCIATE EDITOR

We’re looking for a PhD molecular biologist with physiological orientation to join Science as an editor. The successful applicant will be able to demonstrate a broad range of interests and some experience with biochemical approaches to medical problems. Requirements include at least two or three years of post-doctoral experience and publications in the refereed literature.

Science editors have varied responsibilities in manuscript selection ranging from editing for clarity to soliciting papers. Previous editorial experience is not required. This is a full-time position in our Washington offices.

Please send resume and list of publications with cover letter and salary requirements to:

Mr. Gregory Stokes
AAAS
1333 H Street, NW
Washington, DC 20005
EOE

Research Scientist/Immunology
FRANCE

ROUSSEL-UCLAF is a major pharmaceutical company involved in Chemistry and Biotechnology for pharmaceutical, veterinary and agricultural activities. The Company is seeking an immunologist for its Biotechnology Department located in suburban Paris.

The successful candidate will join a multidisciplinary group, and head a team of 2/3 technicians. The research programs of the group are focused on chemicals and cytokines with immunomodulatory properties.

Requirements include a Ph.D and 2/3 years relevant post-doctoral: international experiences would be appreciated. Enthusiasm and communication skills are important qualities. A substantial experience in cellular immunology will be determinant.

Send resume, list of publications and the names of three references in confidence n° 107/SC to Claudine MAUSHART, 35, bd des Invalides, 75007 PARIS (FRANCE).
MOLECULAR BIOLOGY R&D

Pharmacia P-L Biochemicals is a growing subsidiary of Pharmacia LKB Biotechnology, a world leader in biotechnology products. We are strongly committed to the development of advanced products for molecular biology research, many based on highly purified proteins. We have an immediate opening in our R&D group for an experienced enzymologist. The successful candidate should have extensive experience in the purification of “molecular biology” enzymes, preferably in a commercial setting. Experience in gene cloning and characterization would be a distinct advantage.

This position will offer you plenty of challenge and opportunity, as well as a competitive salary and benefits package. For consideration, please send your resume with salary history to:

S. Hoist, Administrative Assistant
Pharmacia P-L Biochemicals
2202 N Bartlett Avenue
Milwaukee, Wisconsin 53202

We are an equal opportunity employer M/F/H/V.

Pharmacia
Pharmacia P-L Biochemicals

Genetics Institute is a company known for its innovative approach to the scientific research, development and manufacture of human therapeutic agents. The successful application of a sound business strategy in the development of our company enhances our strength and promising future in biotechnology.

Discovery Research

Several openings exist to join our research group at our Cambridge, MA location. We are looking for candidates with a BS/MS in the biological sciences and a minimum of two years' experience in any of the following areas.

Molecular Biology
Histology
Cell Biology
Microbiology

Interested candidates should forward a resume, in confidence, to Susan Fletcher, Genetics Institute, 87 CambridgePark Drive, Cambridge, MA 01240.

We offer a stimulating and dynamic work environment plus an excellent salary and comprehensive benefits package.

An Equal Opportunity Employer, M/F/IIV

ENZYMEOLOGIST;
MOLECULAR BIOLOGY R&D

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

We are seeking an accomplished scientist who is innovative, enthusiastic, has good communication skills and enjoys working as part of a strong multidisciplinary project team. You must possess a PhD in Animal Science - Poultry Science. Postdoctoral experience would be an asset; however, educational training, intellectual capabilities and leadership traits are most important.

Pfizer provides an outstanding opportunity for professional recognition and career growth. We offer excellent compensation, comprehensive benefits and relocation assistance. Qualified applicants should submit a current resume with names of three references to: Ms. Christina Batjer, Senior Personnel Supervisor, Pfizer Inc., P.O. Box 88, Terre Haute, IN 47808. An equal opportunity employer.
POSTDOCTORAL RESEARCHERS

The “Biomolecular Mechanisms” section of the Los Alamos National Laboratory has openings for postdoctoral fellows. Research conducted in this program includes:

1) Studies on the vertebrate rod, a single photon detector that can regulate its sensitivity over a wide dynamic range. We are examining the fine control of those gene products which regulate the photoreceptor-sensitive membrane current in this photoreceptor cell.

2) Studies on the microangiopathy of diabetes, a primary cause of human blindness and renal failure. We are examining the regulation of sodium transport and cell volume in mammalian erythrocytes and the reversible impairment of Na⁺ transport and red cell swelling found in hyperglycemic states.

3) The differential excretion of glycated and unmodified albumins by the mammalian nephron is correlated with age. We are examining age related changes in the biochemical composition and physical properties of selected basement membrane structures.

Applicants should have a strong background in protein chemistry and enzyme regulation, a doctoral degree obtained in the past three years, and must qualify for a Department of Energy “Q” security clearance. Postdoctoral appointments are for one year, renewable for a second year. The salary range is $33,640 - $35,445 per year. Please send a curriculum vitae to Dr. Mark W. Bitensky, Senior Fellow, ADR, MS D434, Los Alamos National Laboratory, Los Alamos, NM 87545. (505) 667-9420.

To apply formally, send resume, employment application, graduate and undergraduate transcripts, and three letters of reference to Carol M. Rich, Human Resources Development Division, PD-89-059, Los Alamos National Laboratory, Los Alamos, NM 87545.

Affirmative Action/Equal Opportunity Employer

University of California

Los Alamos

Cardiovascular Research

G.D. Searle, a worldwide leader in the pharmaceutical industry, has immediate openings for the following laboratory professionals to work in the Department of Cardiovascular Diseases Research. Successful candidates will participate in basic and applied research programs directed toward the discovery of novel cardiovascular therapeutic agents.

PHD PHARMACOLOGIST - Requires 2 or more years experience in cardiovascular research with demonstrated record of scientific achievement. Position requires basic research skills as well as ability to function on a drug development team. Basic areas of research activities include hypertension, congestive heart failure and renal failure.

PHD-PHARMACOLOGIST - POST-DOCTORAL POSITION in cardiovascular research. Opportunity to work in environment that combines basic research, ranging from molecular biology to whole animal pharmacology, and team approach to drug discovery.

BS/MS BIOCHEMIST - Requires BS/MS in biochemistry, pharmacology or biology with a minimum of 3 years laboratory experience; previous experience in receptor binding methodology is preferred. Experience in several of the following areas is desirable: enzyme assays, column chromatography, electrophoresis, immunassays. Responsibilities will include investigating the receptor binding properties of novel compounds in addition to carrying out biochemical studies aimed at obtaining a greater understanding of receptor-ligand interactions. Good oral and written communication skills are necessary.

The above positions are available at the St. Louis site of G.D. Searle R&D in the newly built, modern Life Sciences research facility. This offers a unique opportunity to interact with a multidisciplinary team of scientists in a stimulating research environment. G.D. Searle & Company, a wholly owned subsidiary of Monsanto Company, offers competitive salary and benefits plans. Qualified applicants should send resumes in confidence to: Joan M. Lineberry - GMO; G.D. Searle & Company; Monsanto Life Sciences Research Center-BB4E; 700 Chesterfield Village Parkway; St. Louis, MO 63198. An Equal Opportunity Employer.

SEARLE
FACULTY POSITION AVAILBLE
THE UNIVERSITY OF THE CITY OF CRYS TALLOGRAPHY

Applications are invited for a tenure-stream junior faculty appointment in the Department of Crystallography. The appointee is expected to develop a strong research program in one or more areas of crystallography. The appointee shall pursue new crystallographic approaches to structural problems important in the biological, physicochemical, or materials sciences. The appointee’s teaching responsibilities will include a seminar on crystallography and a statement of research interests, should be sent to: Professor B. M. Craven, Department of Crystallography, University of Pittsburgh, Pittsburgh, PA 15260. The University’s Equal Opportunity Employer. Applications from women and members of racial minorities are especially encouraged.

FACULTY POSITION
TUMOR IMMUNOLOGY

The Division of Oncology, Thomas Jefferson University, has a tenure-track position at the ASSISTANT OR ASSOCIATE PROFESSOR level available for September 1989. Candidates should have a Ph.D. or an M.D. with Board-eligibility in medical oncology, and have an active research program in tumor immunology or tumor antigen immune defense. Send curriculum vitae and a brief description of research interests to: Dr. Michael J. Mastrangelo, Division of Medical Oncology, Thomas Jefferson University, 233 South 10th Street, Suite 1005, Philadelphia, PA 19107. Equal Opportunity Employer.

Medical College of Microbiology and Immunology positions available with suitable experience and background in immunology and/or virology. (i) Tenure-track position for ASSISTANT/ASSOCIATE PROFESSOR, (ii) several positions for research grant supported RESEARCH ASSISTANT PROFESSORS and (iii) RESEARCH ASSOCIATES OR POSTDOCTORAL FELLOWSHIPS. Send by 15 May 1989 a letter of interest, a current curriculum vitae and names of three references to: Dr. Henry Friedmann, Professor and Chairman, Department of Medical Microbiology and Immunology, University of South Florida College of Medicine, 12901 Bruce B. Downs Boulevard, Tampa, FL 33612. According to Florida law, applications and meetings regarding the same are open to the public. USF is an Affirmative Action/Equal Employment Opportunity Employer.

IMAGE ANALYSIS SYSTEM RESEARCH ASSOCIATE

The Department of Physiology, Morehouse School of Medicine, is seeking a mature individual to manage a multi-user SUN-based Image Analysis facility. Background in cell biology with programming experience in UNIX and experience with fluorescent microscopy and video technology highly desirable; in computer interfacing and networking desirable. Salary commensurate with qualifications and experience. Position available immediately.

QUALIFIED applicants should submit curriculum vitae to:

Dr. Catherine Chew
Department of Physiology
Morehouse School of Medicine
720 Westview Drive, SW
Atlanta, GA 30310

Professor, Chair

IMMUNOLOGIST. The Baptist Medical Center, Department of Research, has an immediate opening for an established investigator with a Ph.D. and/or M.D. and proven ability in a clinically relevant area of immunology. Areas of research include, but are not limited to, tumor, transplantation, or nutritional immunology, and immunotherapeutics or diagnostics. The position offers an exciting opportunity for an industrious scientist with a broad knowledge of immunology to establish and direct an immunology research laboratory. Salary competitive. Send curriculum vitae and a statement of research interests, including names and addresses of three references by 1 June 1989 to: David A. Otto, Ph.D. c/o The Baptist Medical Centers, Human Resources Department, P.O. Box 830605, Birmingham, AL 35223-0605. The Baptist Medical Centers is an Affirmative Action/Equal Employment Opportunity Employer.

POSITIONS OPEN

IN VIVO NMR SPECTROSCOPY. The Department of Radiology of the University of Iowa, College of Medicine, invites applications and nominations for a NMR spectroscopist. The University Hospital has a 1.5 T whole body MR system with spectroscopic capabilities and has initiated research on clinical application of in vivo MR spectroscopy. The successful candidate will develop an active research program and collaborate with the clinical staff in applying current and novel techniques to lipid bilayers and other complex membrane lipids. The position will require advanced graduate-level teaching of the theory and applications of magnetic resonance spectroscopy. Applicants must hold a Ph.D. or equivalent and have at least 4 years of postdoctoral research experience. Curriculum vitae, copies of academic transcripts and three letters of recommendation should be sent to: Professor T. B. Battelle, Department of Radiology, University of Iowa, Iowa City, IA 52242. Women and members of minority groups are encouraged to apply. The University of Iowa is an Affirmative Action/Equal Opportunity Employer.

INSTRUCTOR. The University of Texas Southwestern Medical Center at Dallas has an opening at the level of instructor. Successful candidates should have Ph.D. in biochemistry and strong background in chemistry with minimum of 5 years of experience in lipid chemistry and biochemistry. Preference will be given to candidates with experience in phospholipid biochemistry and phospholipid metabolism. Liquid extraction, thin-layer chromatography and capillary gas liquid chromatography are essential areas of training and experience. Familiarity with methods of enzymology and radiotracers labeling and high pressure liquid chromatography is required. Applicants will be expected to include laboratory aspects of a research project dealing with need for omega-3 fatty acids for normal development in the health of the newborn and postnatal growth. Analysis of plasma and red blood cell membranes, lipid subclasses. Send curriculum vitae and three letters of reference by 15 May 1989 to: Dr. H. D. Harry, Ph.D., Department of Pediatrics, 5323 Harry Hines Boulevard, Dallas, TX 75235-9063. Affirmative Action/Equal Opportunity Employer.

University seeks INSTRUCTOR OF BIOCHEMISTRY. Will be responsible for teaching graduate students in laboratory techniques and lectures on topography of biochemistry and fundamentals of proteins (i.e. glycosylation, phosphorylation) in the endoplasmic reticulum and Golgi apparatus of higher and lower eukaryotes. Must have research experience in these subjects and be able to conduct independent research in them. Appointments should include biochemistry, cell biology, and genetics. Ph.D. in biological science is required. Send letter and curriculum vitae before 15 June 1989 to: Chair, Instructor Search Committee, Department of Biochemistry, University of Massachusetts Medical School, 55 Lake Street, Worcester, MA 01655. Affirmative Action/Equal Opportunity Employer.

TENURE-FACULTY POSITION Available in the Department of Pathology for a postdoctoral scientist with research interests in the field of structural biology. The appointee will be targeted against specific human cancer types. Studies will involve the modulation of anticancer agents with thymidylate synthase as the primary target. The focus will be on metabolism of reduced folate, modulation of reduced folate pools, and optimization of drug scheduling for therapeutic gain. Research will also identify factors that influence the regulation and turnover of thymidylate synthase in elucidating the importance of the enzyme as a therapeutic target. Candidates should have the Ph.D. degree with a minimum of postdoctoral experience. A strong background in biochemistry is advantageous. Send curriculum vitae and names of three references to: J. A. Houghton, Laboratories for Developmental Therapeutics, Department of Pharmacology, St. Jude Children’s Research Hospital, 332 North Lauderdale, Memphis, TN 38101. Equal Opportunity/Affirmative Action Employer.

MANAGER, VIRUS PRODUCTION

A rapidly growing veterinary biotechnology company, located just outside Des Moines, Iowa, is seeking a Manager, Virus Production. The company is interested in expanding its research and development efforts in the area of viral vaccines. We will consider candidates with a Master's Degree and at least 3 to 5 years of work experience in the viral culture industry. Responsibilities will include all aspects of viral production, quality control and product development. Send letter and resume to: Resource, Amboce, Inc., Box 522, Dallas, Texas 75263. Amboce, Inc. is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

MAGNETIC RESONANCE SPECTROSCOPIST. Applications are invited for a non-tenure-track position in nuclear magnetic resonance spectroscopy for our research assistant professor in the Department of Biochemistry, University of Virginia. Applicants for this position must be expert in the theory of magnetic resonance spectroscopy and the practical application of these techniques to lipid bilayers and biological membranes. They must also have extensive experience in the synthesis of model phospholipids and other complex membrane lipids. The position will require advanced graduate-level teaching of the theory and applications of magnetic resonance spectroscopy. Applicants must hold a Ph.D. degree and have at least 4 years of postdoctoral research experience. Curriculum vitae, copies of academic transcripts and three letters of recommendation should be sent to: Professor T. B. Battelle, Department of Radiology, University of Virginia, Charlottesville, VA 22908. Applications should be postmarked on or before May 15, 1989. Affirmative Action/Equal Opportunity Employer.

MOLECULAR BIOLOGIST. A junior level research position in our Department of Physiology and Medicine. We are seeking a scientist with research background in molecular biology and an interest in cell division. A Ph.D. or M.D. should have Ph.D.M.D. or D.V.M. degree with accomplishments that demonstrate the ability to maintain an independent research program. The appointee will complement the current faculty in the area of molecular biology. Send letter and CV to: Robert A. deLemos of this institution and Drs. Rich- ard J. King and Jacqueline L. Coalson of The Universi- ty of Iowa. The position is open before November 1989. The program focuses on the physiologic and molecular bases of chronic lung disease.

The Southern Foundation for Biomedical Research is a nonprofit, private research institution with a staff of 45 scientists and facilities for DNA sequencing, oligonucleotide and peptide synthesis, hybridomas, electron microscopy, flow cytometry and computer modeling. It also has extensive nonhuman primate resources which include baboons, rhesus monkeys, and chimpanzees. The appointee will be a postdoctoral scientist, with research interests involving the endoplasmic reticulum and Golgi apparatus of higher and lower eukaryotes. Must have research experience in these subjects and be able to conduct independent research in them. Appointments should include biochemistry, cell biology, and genetics. Ph.D. in biological science is required. Send letter and curriculum vitae before 15 June 1989 to: Chair, Instructor Search Committee, Department of Biochemistry, University of Massachusetts Medical School, 55 Lake Street, Worcester, MA 01655. Affirmative Action/Equal Opportunity Employer.

The Section of Endocrinology at the VA Hospital of the Indiana University Medical Center seeks MOLECULAR BIOLOGY/IMMUNOLOGY POSTDOCTORAL ASSOCIATE to collaborate on design and use of molecular labels for antigen-specific T cells to be used to examine interaction of T cells with antigen in vitro and in vivo. Available July 1989. Please send curriculum vitae, statement of research interests, and names and telephone numbers of three references to: Robert B. Fritz, Ph.D., Department of Microbiology, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226.

MOLECULAR NEUROBIOLOGY AT MCMAST- ER UNIVERSITY. The Department of Biomedical Sciences invites applications for TENURE-TRACK POSITIONS (Ph.D. or M.D.). The existing strengths of the department lie in neuropharmacology, neurotransmitters and receptors, smooth muscle and vision. Applications, together with curriculum vitae and names and addresses of three referees, should be sent to: Dr. J. A. McConas, Department of Biomedical Sciences, McMaster University, 1200 Main Street West, Hamilton, Ontario, Canada, L8N 3Z5. Preference will be given to Canadian citizens and permanent residents in Canada.
Biologists (BL-04)

Health and Welfare Canada
Health Protection Branch
Ottawa, Ontario

The Bureau of Biologics requires two experienced scientific professionals to head two different areas within the Bureau.

Bacterial Antigens and Antisera Section
Reference number: S-88-31-8119-47JG-G35

As a Biologist with the Bureau, you will direct the activities of this Section. This involves regulatory control testing and evaluation of the safety and efficacy of various bacterial vaccines and antisera, as well as other biological drugs prepared with biotechnology for human use in the prevention and treatment of diseases. You will also direct and coordinate development research programs on the above-mentioned drugs.

Requirements include graduation with a doctoral degree from a recognized university in a biological science or a lesser degree with evidence of research experience. You must also possess laboratory and research experience in microbiology, molecular biology and immunology. Knowledge of English is essential.

Immunology Section
Reference number: S-89-31-5221-47JG-G35

As a Biologist with the Bureau, you will oversee the activities of this section. Such a responsibility involves regulatory control testing and evaluation of the safety and efficacy of various biological drugs (hormones, enzymes, allergenic products) prepared by different production methods including biotechnology. We will rely on you to act as a consultant in the appraisal and evaluation of new drug submissions and to evaluate operating procedures of Canadian and foreign pharmaceutical manufacturers. You will also direct and coordinate development research programs on the above-mentioned drugs.

Education includes graduation with a doctoral degree from a recognized university in a biological science or a lesser degree with evidence of research experience. You must also possess laboratory and research experience in biochemistry and immunology. Experience in molecular biology and microbiology would be a definite asset. Knowledge of English is essential.

We offer a salary ranging from $48,139 to $55,591 commensurate with your qualifications and experience.

Please forward your résumé and/or application form, quoting the appropriate reference number to: Joan Girling, (613) 996-8054, Public Service Commission of Canada, National Capital Region, 171 Slater Street, Ottawa, Ontario K1A 0M7.

Closing Date: 31 May 1989
RESEARCH ASSOCIATES
Molecular Biology

Amgen, an industry leader in advanced biotechnology, develops products for a wide variety of applications. Recent progress has created an opportunity for a BS or MS scientist to contribute to ongoing research efforts in molecular biology.

Qualified applicants should have a BS or MS in Molecular Biology, Biochemistry or a related discipline and 2-4 years of experience in Prokaryotic Molecular Biology or Molecular Genetics. Experience with basic molecular biological techniques such as library construction, vector construction, immunoblot analysis and enzyme assays is essential. Familiarity with Gram positive organisms is highly desirable.

Amgen offers a stimulating and challenging research environment as well as an attractive location one hour northwest of Los Angeles. Amgen also offers an excellent compensation and benefits package. Qualified applicants should send a resume and a list of 3 references, in confidence, to:

AMGEN, INC.
Recruitment, Dept. #391
1900 Oak Terrace Lane
Thousand Oaks
CA 91320

EEO/AA Employer

CIBA-GEIGY RESEARCH PROFESSORSHIP IN NEURODEGENERATIVE DISEASES

LOCATION:
McMaster University Faculty of Health Sciences with primary appointment in the Department of Medicine, Psychiatry, Clinical Epidemiology and Biostatistics, or Biomedical Sciences.

RANK: Associate or Full Professor

QUALIFICATIONS:
Qualifications for this job will include an MD with subsequent specialty qualifications in psychiatry, internal medicine, clinical pharmacology, or clinical epidemiology, or completion of a postgraduate degree in a relevant biomedical science. Under exceptional circumstances, applications from non-MD scientists will be considered. The successful candidate will be an established independent investigator with an interest in the investigation and/or treatment of neurodegenerative diseases with cognitive impairment. The successful candidate will have an opportunity to work as part of a multi-disciplinary group focused on the pharmacologic treatment of neurodegenerative diseases, and must have a proven record of success in a multi-disciplinary research program. Expertise in the evaluation of methods applied to neuro-cognitive assessment would be especially valuable.

SALARY:
Salary will be appropriate to experience, rank, and involvement in clinical activities.

CLOSING DATE: June 30, 1989

Interested applicants should apply in writing, enclosing a curriculum vitae with the names and addresses of three referees to: DR. STUART M. MacLEOD
DEAN, FACULTY OF HEALTH SCIENCES, MCMASTER UNIVERSITY, 1200 MAIN STREET WEST, HAMILTON, ONTARIO L8N 3S5

In accordance with immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

BIOTECHNICAL/RESEARCH OPPORTUNITIES

Interferon Sciences, Inc. is a growing biotechnology company located at the heart of the pharmaceutical industry in central New Jersey. Applications are invited at all degree levels for R & D positions in the following areas:

Immunochemistry/Hybridoma
Immunochrist with experience in immunoassay development and production and purification of monoclonal and polyclonal antibodies (RD101).

Protein Biochemistry
Biochemist with experience in purification and characterization of proteins, affinity chromatography, and product development (RD102).

Cell Biology
Biologist with experience in mammalian cell culture and cytokine assay development (RD103).

Molecular Genetics
Molecular biologist with experience in cDNA cloning, DNA sequencing, vector construction, gene expression and in vitro mutagenesis (RD104).

INTERFERON SCIENCES, INC.
783 Jersey Avenue
New Brunswick, NJ 08901

An Equal Opportunity Employer M/F

DEAN
GRADUATE SCHOOL
OF BIOMEDICAL SCIENCES

As part of a plan to enhance its effectiveness and impact as a major research center, The University of Medicine and Dentistry of New Jersey seeks an accomplished Scientist as Dean of its Graduate School of Biomedical Sciences. The Graduate School consists of 14 departments on two campuses offering programs leading to the Ph.D., M.D./Ph.D. and D.M.D./Ph.D.

The successful candidate will have a Doctoral degree in an appropriate discipline plus a track record of substantial research activity sufficient for appointment as a tenured Professor. Administrative experience is desirable.

Review of applications will begin immediately. The University will continue to accept applications until the position is filled. Applicants should send a complete curriculum vitae and a brief letter of interest to: Harvey Ozer, M.D., Search Committee Chair, Chairman, Department of Microbiology and Molecular Genetics, UMDNJ-New Jersey Medical School, (5), 185 South Orange Avenue, Newark, NJ 07103-2757.

The UMDNJ is an Affirmative Action/Equal Employment Opportunity Employer M/F/V.

UMDNJ
NEW JERSEY
OVERSEAS LIAISON SCIENTIST POSITIONS
TOKYO, JAPAN

The Office of Naval Research, the Air Force Office of Scientific Research, and the Army Research Office are jointly soliciting letters of interest and resumes from qualified candidates to fill liaison scientist positions in their combined office in Tokyo. Candidates are sought who are US citizens, are currently research scientists or research engineers and who have a Ph.D. or equivalent experience in physical, environmental, engineering, or life sciences. In general, preference is given to candidates from the academic or government sectors. Knowledge of DOD R&D activities; relevant, established foreign contacts; and stature in the international R&D community are highly desirable features of an applicant’s background.

Generally, up to 2-year assignments are available for coverage of the following fields (periods are somewhat negotiable):

- Computer Science (continuing requirement)
- Electro-optics/lasers
- Materials/composites/ceramics
- Chemistry/polymers
- Biotechnology
- Solid State Electronics
- Manufacturing Science
- Statistics/Applied Math

Liaison scientists survey research in selected areas of importance to current or potential R&D interests of the sponsoring offices. They interact with foreign scientists via personal contacts and attendance at meetings and write interpretive reports of their survey efforts.

Candidates should send letters of interest (indicating dates of availability) and resumes to:

Ms. Pearl Cano
Office of Naval Research
International Programs (Code 11DS)
Arlington, Virginia 22217-5000

GLAXO INSTITUTE FOR MOLECULAR BIOLOGY S.A.

The Geneva biotechnology research unit of the largest U.K. pharmaceutical group has a vacancy for a Biochemist to investigate membrane receptors signal transduction mechanisms

The Glaxo Institute for Molecular Biology applies a molecular approach to the discovery of effective new medicines. Projects include inflammatory diseases, viral therapeutics, neurobiochemistry and the regulation of cell proliferation and differentiation.

The Institute has a staff of over 120 people, grouped in small teams of specialists from several domains of modern biology. We are part of the Glaxo Group, which has an outstanding reputation for the quality of its research and products. We offer an excellent salary and benefits package, an interactive research environment, and opportunities for career development in one of the most attractive parts of Europe.

The ideal candidate will have several years of postdoctoral research experience and a proven track record in the field of membrane receptors or signal transduction mechanisms. Experience with animal cell cultures would be an advantage.

If you are interested in this position, please send your curriculum vitae with a list of publications and the names of three references to: Rita Gloor, Personnel Manager, GLAXO IMB SA, 46, route des Acacias, 1211 Geneva 24, Switzerland.
NEUROBIOLOGIST/NEUROETHOLOGIST
COLORADO STATE UNIVERSITY

Applications and nominations are solicited for a neurobiologist/neuroethologist position at the assistant professor level. We seek an individual who is conducting research on the cellular and/or molecular basis of behavior. Postdoctoral experience is preferred. The tenure-track appointment will be in the biology department, and the individual will be expected to participate in the University-wide affirmative action/ equal opportunity program involving graduate students. Ph.D. required; postdoctoral experience preferred. Send curriculum vitae, unofficial transcripts, and names and addresses of at least three references by 29 May 1989 to: Dr. Gary Childers, Department of Biological Sciences, Southeastern Louisiana University, Box 814, Hammond, LA 70402.

POLYMER SCIENCE AND ENGINEERING UNIVERSITY OF MASSACHUSETTS Applications and nominations are invited for a tenure-track faculty appointment at the assistant professor level in the Department of Polymer Science and Engineering to begin September 1989. Candidates must have an earned doctorate and a strong commitment to research and teaching excellence. Salary commensurate with qualifications and experience. Applicants should submit curriculum vitae and an outline of research plans, and three letters of recommendation. Director of Graduate Studies, Department of Polymer Science and Engineering, University of Massachusetts, Amherst, MA 01003. Closing date 15 May 1989. The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer.

UNIVERSITY OF MINNESOTA DEPARTMENT OF PHARMACOLOGY

RESEARCH ASSOCIATE POSITIONS

The Department of Pharmacology, University of Minnesota Medical School, has postdoctoral and research associate positions available in several fields. Our faculty members are involved in direct interdisciplinary research programs. Positions are open to applicants upon receipt of a Ph.D. degree.

Areas of emphasis include:
- Molecular biology, biochemistry, immunology, and neurobiology-neurochemistry
- Molecular cloning, opioid receptor, receptor, and chemical biochemistry
- Intracellular electrophysiology, ion channels
- Drug abuse, neuropharmacology
- Biochemistry, molecular pharmacology
- Cancer chemotherapy, immunopharmacology, drug metabolism, enzymology, and anti-viral drugs

Interested applicants should send curriculum vitae, statement of research interests, and the names of three references to: Dr. Horace H. Loh, Professor and Head, Department of Pharmacology, 3-249 Millard Hall, 435 Delaware Street SE, Minneapolis, MN 55455.

The University of Minnesota is an Equal Opportunity Educator and Employer, and specifically invites and encourages applications from women and minorities.

POSTDOCTORAL ASSOCIATE

Postdoctoral associate to research cellular and molecular mechanisms of cell death and receptor-mediated signaling in mammalian cells. Ph.D. degree is required in the field of pharmacology, biochemistry, anatomy or related discipline. The appointment is available for a minimum of 3 years beginning in the Fall 1990. Salary is commensurate with experience. Send curriculum vitae and the names of three references to: W. Parrish, M.D., Department of Pharmacology, University of Missouri-Columbia, 1400 E. Walnut Hill Road, Columbia, MO 65212. E-mail: WMPAR@MURRO.UMC.EDU. The University of Missouri-Columbia is an Equal Opportunity/Access/Missouri Equal Access/Affirmative Action Employer.
**DIRECTOR, INTERNATIONAL CENTRE FOR BIRTH DEFECTS**

The International Clearinghouse for Birth Defects Monitoring Systems, affiliated with WHO as a non-governmental organization, the National Institute of Public Health, Norway, and the University of Bergen Norway are establishing an International Centre for Birth Defects, to be located at the University of Bergen. Funding for an initial three years period is provided by the Norwegian government. The purpose of the Centre is

- to co-ordinate the surveillance activities of the Clearinghouse including the definition and implementation of criteria, standards and methods
- to promote, co-ordinate and undertake collaborative research among the Clearinghouse member programmes, and
- to develop and conduct training programmes for the staff of the member programmes.

The Director reports to the Board, consisting of representatives of the founding parties. The Director organizes, conducts and supervises all activities and functions of the Centre.

High scientific epidemiological qualifications are required, and preference will be given to applicants with experience in the clinical and epidemiological aspects of birth defects. Ability to work effectively in a collaborative environment is essential. Skill in written and oral communication in the English language is necessary.

Salary commensurate with training and experience. A faculty position at the University of Bergen may be established.

The position will be extended beyond the three years period provided an extended or permanent funding of the Centre.

Further information may be obtained from Professor Lorentz M Irgens, Medical Birth Registry of Norway, The Armauer Hansen Building, MFH, Haukeland Hospital, N-5021 Bergen Norway, telephone 5 974667.

Letters of application including curriculum vitae, and bibliography, should be sent to the Faculty of Medicine, University of Bergen N-5027 Bergen Norway, from where a further written description of the post may be obtained, within May 5th, 1989.

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**Research Scientists**

Triton Biosciences Inc., a subsidiary of Shell Oil Company located in the San Francisco Bay Area, is a fully integrated pharmaceutical and diagnostics company focused on product development opportunities in the areas of cancer, AIDS and other serious diseases. We currently have the following openings.

**Bioassay**

Experienced researcher to develop sensitive bioassays for proteins in support of process and product development activities and final product release. You should have a PhD in Biochemistry, Microbiology or Immunology and 3 or more years of experience with assay development, including direct experience in receptor binding, growth inhibition, antigens, enzymes and bioassays. Reply to Job #89008.

**Molecular Immunology**

You should have a PhD in Immunology or Biochemistry with experience in the immunological and molecular characterization of protein antigens. Background in tumor markers, cancer immunology and immunoassay development required. Reply to Job #RW.

**New Cancer Markers**

You should have a PhD in Biological Sciences with equivalent expertise in cancer biology. Duties include effective interaction with multidisciplinary team in evaluating new cancer markers for diagnostic use. Reply to Job #YT.

**Research Associate**

**Hybridoma Development**

You will perform monoclonal antibody research and development for cancer diagnostics. Your qualifications should include a BS/MS and experience in all aspects of hybridoma generation and characterization. Reply to Job #RW2.

Triton offers competitive salaries and benefits, including relocation assistance. For consideration, send your resume with cover letter highlighting your qualifications and including the names of three references to Triton Biosciences Inc., 1501 Harbor Bay Parkway, Alameda, CA 94501. EEO/AA employer.
Molecular Biologist

CIBA-GEIGY's Agricultural Division has an excellent opportunity for a Molecular Biologist to contribute to our genetic engineering and crop improvement program. Long recognized as one of the world's foremost producers of crop protection chemicals, we have made a major commitment to Biotechnology research at our facility in Research Triangle Park, NC.

The Senior Scientist we seek will design eukaryotic gene expression systems for the production of foreign proteins. Qualified candidates will have a PhD plus two years of postdoctoral experience. Training should be in the area of Molecular Biology or a related discipline, specializing in foreign gene and protein expression. Experience with yeast and/or insect cell systems is also required.

You will find that our career support and advancement opportunities are exceptional. CIBA-GEIGY provides a competitive salary and generous company-paid benefits, including relocation assistance. Please forward your resume, including three letters of professional reference, in confidence to: Dr. Mary-Dell Chilton, CIBA-GEIGY Corporation, Agricultural Division, P.O. Box 12257, Research Triangle Park, NC 27717. We Are An Equal Opportunity Employer M/F/H/V.

Science Serving Mankind

CIBA-GEIGY

OUR WORLDWIDE INFLUENCE STARTS WITH ADVANCED RESEARCH

G.D. Searle is recognized worldwide for innovative science and respected products. Research is a top priority in our ongoing commitment to increased growth and industry influence. We now offer two exceptional opportunities to support our dedication to a leadership role in Gastrointestinal Drug Discovery.

SR. RESEARCH INVESTIGATOR/IMMUNOLOGY

An immunopharmacologist to develop innovative new approaches to treating inflammatory bowel diseases (IBD). Duties include the utilization of animal models of IBD and in vitro assays to develop drugs for mucosal anti-inflammatory activity. The successful candidate will hold a PhD in immunology, biochemistry or pharmacology with at least 2 years postdoctoral experience.

SR. RESEARCH INVESTIGATOR/MOTILITY

An individual to characterize gastrointestinal smooth muscle function in vitro, utilizing contraction models and methods of pharmacologic receptor analysis. Other responsibilities include integrating biochemistry of smooth muscle into function at the tissue level. Requirements include a PhD in physiology or pharmacology with at least 2 years of postdoctoral experience in gastrointestinal motility or a related area.

We offer an outstanding professional environment and highly competitive compensation, including generous benefits. For confidential consideration, please forward your resume to: G.D. Searle & Co., Human Resources Dept. HY11, 4901 Searle Parkway, Skokie, IL 60077. Equal Opportunity Employer M/F.

NUTRITIONAL EPIDEMIOLOGIST

POSITION OPEN IN THE DIVISION OF EPIDEMIOLOGY
AMERICAN HEALTH FOUNDATION

The American Health Foundation is seeking a Nutritional Epidemiologist with an interest in research on chronic diseases, especially cancer. The research will involve extensive collaboration with a multidisciplinary team, including clinical nutritionists, biochemists, epidemiologists, and bio-statisticians. The successful candidate will have:

1) An earned Doctoral degree in Nutrition or Nutritional Biochemistry and a Masters degree in Epidemiology, or a combination of other credentials indicative of expertise in both Nutrition and Epidemiology;
2) Publications in the fields of Nutritional Epidemiology;
3) A record of accomplishment in writing grant applications for peer review;
4) Experience in designing, planning, executing, and analyzing epidemiological research projects.

Interested applicants should apply by sending a covering letter, including salary requirements, and CV to:
Division of Epidemiology
American Health Foundation
320 East 43 Street
New York, New York 10017

Equal Opportunity Employer — M/F/H/V.

MOLECULAR GENETICIST

LADY DAVIS INSTITUTE FOR MEDICAL RESEARCH

The Lady Davis Institute, a research department of the Sir Mortimer B. Davis-Jewish General Hospital (a McGill University teaching hospital), is seeking a molecular geneticist at the assistant/associate professor level. Applicants should hold Ph.D. and/or M.D. degree(s), have significant post-doctoral experience and the potential for developing a vigorous independent research program on gene expression at a locus involved in human disease. Preference will be given to candidates with M.D. degrees who are qualified and willing to spend 20% of their time in the Division of Genetics of the Department of Medicine.

Send curriculum vitae, statement of research goals and the names of three references to:
Dr. Herbert M. Schulman, Acting Director
Lady Davis Institute for Medical Research
Sir Mortimer B. Davis-Jewish General Hospital
Montreal, Quebec, Canada H3T 1E2
DEPARTMENT OF PSYCHIATRY
UNIVERSITY OF TORONTO

Applications are invited for the position of Assistant Professor in the area of Molecular Neurogenetics as applied to psychiatric disorders. This position requires a Ph.D. or other doctoral degree and significant post-doctoral experience in molecular genetics, molecular neurobiology or an equivalent field. The successful candidate will be expected to work collaboratively with a multidisciplinary neuroscience/neuropsychiatric research group comprised of basic and clinical researchers investigating the neurobiology and neurogenetics of psychiatric disorders. The position requires demonstrated ability to conduct independent research within a collaborative group and to compete for extramural funding.

The position is tenure track equivalent supported initially by the l'Anson fund. Salary is commensurate with rank and experience. The position also includes a one time start up research grant.

The University encourages both men and women to apply for positions. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada.

Candidates should submit a letter of application, a curriculum vitae and the names of three referees from whom letters of recommendation may be solicited. Please submit responses to: Dr. Jerry J. Warsh, Director of Research, Clarke Institute of Psychiatry, 250 College Street, Toronto, Ontario, Canada M5T 1R8.

The successful candidate would be expected to take up the appointment prior to September 1, 1989.

Closing date for applications is May 19, 1989.

MOLECULAR PHARMACOLOGIST
Committed To Scientific Excellence

STERLING RESEARCH GROUP
A Division of Sterling Drug Inc.
81 Columbia Turnpike
Rensselaer, NY 12144
A Subsidiary of the EASTMAN KODAK COMPANY
Equal Opportunity Employer M/F/H/V

POSTDOCTORAL RESEARCH
-ORGANIC CHEMIST

A unique position is available immediately for a 1-2 year postdoctoral position, which offers an opportunity to gain experience in a highly competitive pharmaceutical research environment. The ideal candidate will have extensive background in solid and/or solution phase peptide synthesis and a strong knowledge of modern synthetic organic chemistry.

The successful candidate will work on molecular modelling and synthesis of replacements for endogenous vasopressor peptides. Stimulating collaboration with biologists and chemists with international scientific reputations is a hallmark of this opportunity. Development and publication of original ideas will be strongly encouraged.

Berlex Laboratories, located in northern New Jersey, is a wholly owned subsidiary of a major international pharmaceutical company and offers a competitive salary and benefit package. Our location encourages contacts in the greater New York City scientific community.

Interested scientists should send a resume and brief statement of career goals and research interests to: Joan Bianchini, Human Resource Representative, R&D, BERLEX LABORATORIES, INC., 110 East Hanover Avenue, Cedar Knolls, N.J. 07927. Equal opportunity employer M/F/H/V

Genetics Institute

The Sterling Research Group, the worldwide pharmaceutical research and development organization of Sterling Drug Inc., announces an opening for a Senior Research Biologist in the Pharmacology Department at its Rensselaer, New York facility.

An excellent opportunity exists for a molecular pharmacologist who has expertise in growth factor, ion channel or neurotransmitter receptor binding studies to participate in an interdisciplinary approach to basic research and drug discovery. The successful candidate should have a doctoral degree in pharmacology, biochemistry or related discipline and at least two years of relevant post-doctoral training. Experience in cell and tissue culture methodologies would also be desirable.

Sterling Drug Inc. offers competitive salaries and a comprehensive benefits program, along with outstanding career opportunities for personal and professional growth. For confidential consideration, please forward your resume with salary history/requirements to:

Jo Ann Fitzgerald
Employee Relations Administrator
POSTDOCTORAL FELLOWSHIP
NIH Staff Fellow/ Senior Staff Fellow position is available at the National Institute on Alcohol Abuse and Alcoholism (NIAAA). We have a program of studies of nervous system and hormone receptors and their interactions with cytokines and growth factors. Preference is given to applicants with experience in molecular biology, protein purification, and receptor biochemistry/pharmacology. Salary is commensurate with experience. Only U.S. citizens or permanent residents are eligible for this position.

Send curriculum vitae and names of three references to: Dr. George Kunos, Laboratory of Physiologic and Pharmacologic Studies, NIAAA, 5210 Washington Avenue, Rockville, MD 20852. Telephone: 301-443-1234. NIAAA is an Equal Opportunity Employer.

POSTDOCTORAL MOLECULAR IMMUNOLOGISTS
Two postdoctoral positions are available in an active program of Transplantation Immunology. One individual will conduct studies on immunological unresponsiveness in induction in transplant recipients using either purified soluble HLA molecules, synthesized peptides, or recipient cells transfected with donor MHC genes. The second individual will study the regulation of expression of HLA genes. Salary is commensurate with experience and begins at $23,196.

Send curriculum vitae and names of three references to: Dr. St. George G. B. Kunos, Laboratory of Physiologic and Pharmacologic Studies, NIAAA, 5210 Washington Avenue, Rockville, MD 20852. Telephone: 301-443-1234. NIAAA is an Equal Opportunity Employer.

POSTDOCTORAL POSITION
We are seeking an experienced membrane biochemist who will isolate the complete bacterial flagellar motor and determine its structure by electron microscopy. The Structural Biology Laboratory at Brandeis has extensive facilities for electron microscopy and image analysis and will provide as part of this project training in these techniques. Applications, including curriculum vitae and names of three references, should be sent to:

Dr. David DeRisi Rosenstiel Basic Medical Sciences Research Center Brandeis University P.O. Box 9110 Waltham, MA 02294-9110

An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
We are seeking candidates for study the regulation of enzyme tyrosine hydroxylase in pheochromocytoma cells, bovine chromafin cells, and the rat central nervous system. Preference will be given to candidates with a strong background in biochemical and molecular biology. Send curriculum vitae and the names of three references to: Norman Weiner, M.D., Department of Pharmacology, Box C236, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262.

POSTDOCTORAL POSITION
Open for studying long-term functioning of identifiable adult neurons and the behaviors the neurons mediate. Stress include behavior and its physiological and biochemical substrates. A multidisciplinary center on aging provides additional research opportunities for postdoctoral fellows for 3 years. Send résumé and names of three references to: Dr. Bert Peretz, Department of Physiology, University of Kentucky Medical Center, Lexington, KY 40536-0084.

POSTDOCTORAL POSITION
Open for studying DNA photolysis and the mechanism of enzymatic photo repair of DNA damaged by ultraviolet light. Send curriculum vitae and names of three references to: Dr. W. Jorns, Department of Biochemistry, Hahnemann University, Broad and Vine, Philadelphia, PA 19102.

POSTDOCTORAL POSITION
Open for M.D. or Ph.D. with experience in molecular biology beginning summer of 1989 to study the molecular mechanisms controlling feeding behavior. Approaches being taken include a molecular analysis of neuropeptide genes which affect feeding as well as a "reverse genetics" approach to clone mutant mouse genes which affect feeding behavior.

Send curriculum vitae, summary of research, and names of three references to: Dr. Jeffrey M. Friedman, Howard Hughes Medical Institute, The Rockefeller University, 1230 York Avenue, New York, NY 10021. An Equal Opportunity Employer.

POSTDOCTORAL POSITION
Open immediately to study the modulation of epithelial chloride channels using optical as well as electrophysiological techniques. Applicant should have a Ph.D. with a background in electrophysiology desirable. Salary: $30,000 for the first year. Applications including curriculum vitae are to be sent to: Dr. Deborah J. Nelson, The Department of Medicine, Hospital Box 249, 5841 South Maryland Avenue, Chicago, IL 60637. An Equal Opportunity Employer.

POSTDOCTORAL POSITION
Open July 1989 to study the regulation of swarmer cell differentiation in Prosthecobius. Ph.D. in microbiology, molecular biology or biochemistry required. A strong background in recombinant DNA technology preferred. Closing date for applications is 30 June 1989. Send curriculum vitae and the names of three references to: Dr. Robert Belas, Center of Marine Biotechnology, University of Maryland Systems, 600 East Lombard Street, Baltimore, MD 21202. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS
Open immediately to study molecular and cellular mechanisms controlling parietal cell HCl secretion. Projects require experience in (i) cell culture/protein isolation/purification or (ii) receptor binding/diagnostic techniques. Salaries competitive. Reply to: Catherine S. Chew, Ph.D., Department of Physiology, Morehouse School of Medicine, 720 Westview Drive SW, Atlanta, GA 30310. Morehouse School of Medicine is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS
Open immediately to study molecular and cellular mechanisms underlying a diversity of diseases. Projects involve molecular biology, biochemistry, and genetics approaches to study the interactions between the viral and host cells. Send curriculum vitae and names of three references to: Dr. W. C. Nelson, Genetics Laboratory, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262.

POSTDOCTORAL POSITIONS
Available to study the metabolic and molecular biological changes in human cancers with an emphasis on GABA and excitatory amino acid receptors. Techniques include molecular biology, radioligand binding, photoaffinity labeling, ligand-stimulated ion flux, monoclonal antibodies, patch-clamp electrophysiology, and fluorescence digital image analysis. Salary: $27,000 to $30,000. Send curriculum vitae to: Dr. David Farb, Department of Anatomy and Cell Biology, SUNY Health Science Center, 450 Clarkson Avenue, Brooklyn, NY 11203. Equal Opportunity/Affirmative Action employer.

POSTDOCTORAL POSITIONS
In Molecular Neurobiology for individuals interested in using a variety of approaches to study drug addiction and altered ammonia assimilation (Science 241, 951 (1988)). These plants have impaired glutamine synthetase activity in their roots and yet they have increased N assimilation and specific activity and protein concentration of nitrogenease. Motivated individuals with research experience and/or interest in one or more of the two areas: biochemistry or biochemistry are sought. Research approach is an integration of molecular biology and biochemistry/physiology. This is an excellent opportunity to develop personal initiatives. Ample collaborative and laboratory facilities are available. Salary: $20,000 to $32,000, depending upon qualifications. Send curriculum vitae and names of three references to: Dr. Pat J. Unkefer, Mail Stop C345, Los Alamos National Laboratory, Los Alamos, NM 87545, Telephone: 505-665-2586, or to: Dr. Champa Sengupta-Gopalan, Plant Genetic Engineering Laboratory, New Mexico State University, Las Cruces, NM 88003. Telephone: 505-846-5784. To apply formally, send a recent, well-prepared curriculum vitae, a complete list of references, and graduate transcripts, and three letters of recommendation to: Carol Rich, Human Resources Development Division, PMD-89-061, Los Alamos National Laboratory, Los Alamos, NM 87545. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS (Two)—Available for studies of (i) signal transduction and calcium-dependent second messenger function in liver and/or neurosecretory cells and (ii) mechanisms of cocaine and alcohol interaction with excitation-contraction coupling in cardiac muscle. These research projects will utilize a range of recently developed techniques, including high-speed digital imaging fluorescence microscopy and confocal laser scanning microscopy. The laboratory is well funded and brings together a number of researchers in areas of biochemistry, biophysics and physiology in an interdisciplinary approach. Prior experience in one of the following areas would be an advantage: inositol lipid metabolism, G-protein mediated intracellular calcium mobilization, or nucleotide hydrolysis and its role in signal transduction. Send curriculum vitae and names of three references to: Dr. Andrew P. Thomas, 271 Jefferson Alumni Hall, Thomas Jefferson University, Philadelphia, PA 19107. Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE
A Duke University and EPA cooperative study will use chemical and biological techniques to determine the fate of toxic substances during exposure to ozone and other inhaled pollutants. Experience with oxidative or free radical chemistry and familiarity with instrumentation is preferred. Send curriculum vitae to: Dr. Gary Hatch, Chief, Biochemical Toxicology Section, MD-82, U.S. EPA, Research Triangle Park, NC 27711. Affirmative Action/Equal Opportunity Employer.
Research Scientist Cell Biology

This scientist will direct the tissue culture and cell biology laboratory expressing recombinant proteins in eukaryotic cells. Responsibilities will include directing research using cell-based assays to examine protein structure and function, and coordinating mammalian and insect cell culture. A Ph.D. is required, with a history of research which applies protein chemistry or molecular biology training to cell biology questions. Experience in studying cell surface proteins is a plus.

Repligen Corporation offers a competitive salary and excellent benefits and equity participation. Please submit a cover letter, resume, and references to: Barbara Fleming, Recruiter, Repligen Corporation, One Kendall Square, Bldg. 700, Cambridge, MA 02139. An Equal Opportunity Employer.

UIC
College of Medicine at Peoria

Senior Research Specialist
A non-tenure track position available immediately to study noradrenergic seizure regulation in the Genetically Epilepsy-Prone Rat (GEPR). Experience in neuroanatomy, histology, intracerebrodialysis, HPLC with electrochemical detection, stereotaxic placement of cannulae within the brain and evaluation of seizures is necessary. The candidate should have some expertise in utilization of computers in a research laboratory. A Ph.D. degree in neuroanatomy, neurophysiology or neuropharmacology is required.

Postdoctoral Research Associates
Positions now available to study noradrenergic seizure regulation in the Genetically Epilepsy-Prone Rat (GEPR). Experience in stereotaxic lesioning techniques, microdialysis or kindled seizures desirable. Requirements: doctorate with experience in neuropharmacology, neuroanatomy, neurophysiology or a related discipline. Individuals who have completed the Ph.D. degree within one year of application will be considered for one position. For the second position, preference will be given to individuals with one to two years of relevant postdoctoral experience. Experience in electrophysiology is desirable but not essential.

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

Send CV and names of three references to:
Phillip C. Jobe, Ph.D., Chair, Department of Basic Sciences
University of Illinois College of Medicine at Peoria
P.O. Box 1649, Peoria, IL 61656.

Manager, Animal Physiology

Collagen Corporation, a dynamic and growing biotechnology company dedicated to expanding its research, development, production and marketing of differentiated biomedical products, has an immediate opportunity for a Manager of Animal Physiology.

In this critical position, you will assume a leadership role, supervising the personnel and directing the activities of our animal facility. In addition, you will provide support to and be an active participant in all research programs and implement the policies of the Institutional Animal Care and Use Committee (IACUC).

The successful candidate will have the following qualifications: DVM degree and at least 5 years' experience in the care and husbandry of laboratory animals, AALAS certification, familiarity with USDA and NIH animal care guidelines, excellent communication and interpersonal skills, and the ability to manage a variety of projects simultaneously. Supervisory experience is essential. Experience in orthopedic research and animal modeling is desirable but not essential.

At Collagen, we offer opportunities for career growth and development in a stimulating environment, in addition to an attractive salary and full benefits. For immediate consideration, please send your resume with references to: S. Hansen, Human Resources, Collagen Corporation, 2500 Faber Place, Palo Alto, CA 94303. We are an equal opportunity employer.

BIOTECHNOLOGY

BIOCHEMICAL ENGINEER/SCIENTIST

At Cetus Corporation, we are committed to maintaining a leading role in the development of biotechnology-based products. Our Process Development Group has an immediate opening for a Biochemical Engineer/Scientist with expertise in the area of downstream purification.

You will have an understanding of the underlying engineering principles of scale-up to rationally extrapolate laboratory/pilot scale purification findings and assess feasibility for commercialization. You will perform engineering analyses of purification operations including design and operation of large-scale chromatographic separations of proteins, as well as review all purification process options and develop an engineering view towards scalability by consulting with appropriate scientists and project engineering staff. Evaluation of costs, reliability, throughput and timing will require a "hands-on" role in conducting research at the bench and pilot scale.

We require a PhD, preferably in Chemical Engineering, although other disciplines with relevant experience will be considered, and a minimum of 1-2 years' experience in protein purification. Industrial experience in protein purification would be an asset.

Cetus offers an excellent salary and benefits package along with an environment that encourages innovation and growth. For consideration, please send your resume to Cetus Corporation, Box BF, 1400 Fifty-Third Street, Emeryville, CA 94608. We are an Equal Opportunity Employer.
U.S. PATENT AND TRADEMARK OFFICE

POSITION: Microbiologist/Patent Examiner Opportunity involves the scientific and legal evaluation of patent applications involving recombinant DNA, molecular and cellular immunology, molecular genetics, microorganisms, cell biology, cell culture, fermentation, enzymology or clinical chemistry.

QUALIFICATIONS: A full 4-year or longer professional curriculum in an accredited college or university leading to a Bachelor's Degree or higher with specific study in Molecular Biology, Biochemistry, Immunology, Enzymology, Embryology, Protein Chemistry, Microbiology or Cell Biology.

A Ph.D. or M.S. degree with relevant research experience is preferred. A B.S. degree with significant research experience will be considered.

Research Experience in any of the following areas would be beneficial: DNA cloning, protein chemistry, gene expression, sequencing techniques, mutagens, hybridoma technologies, monoclonal antibody applications, mammalian or plant cell lines, cell culture, immunoscans, hybridization techniques, fermentation, enzymatic reaction, diagnostics and automation of clinical analysis.

SALARY: Dependent upon experience and qualifications.

LOCATION OF POSITION: Arlington, VA

For further information contact:
Patent and Trademark Office
Office of Personnel, C&E
CPK 1, Suite 700
Washington, D.C. 20231
703-557-3631
Toll free: 800-368-3064

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UCLA
CELL AND MOLECULAR
PHYSIOLOGY

The Department of Physiology invites applications for tenure track faculty positions at the level of

Assistant Professor

Outstanding candidates working in any area of contemporary physiology will be considered, but those in smooth muscle, reproduction and development, endocrinology, sensory transduction, and the cardiovascular system are encouraged to apply. Successful candidates are expected to have a Ph.D. or M.D. with postdoctoral experience, to provide evidence that they can pursue a vigorous, independent research program and to participate in our teaching program.

Resources and an excellent environment exists for developing an academic career within an interactive community. Interested scientists should send their curriculum vitae, a statement of present and future research interest, and names of three references to: Ernest M. Wright, D.Sc., Professor and Chairman, Department of Physiology, UCLA School of Medicine, Los Angeles, CA 90024-1751.

The University of California is an Equal Opportunity Affirmative Action Employer.

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Postdoctoral Opportunities

Protein Structure/Function Research

The Macromolecular Sciences Department of Smith Kline & French Laboratories, located in suburban Philadelphia, PA, is seeking outstanding postdoctoral scientists to conduct structure-function research on proteins and their macromolecular interactions and the synthetic/genetic design of recognition molecules.

Candidates must have a Ph.D. in Chemistry, Biochemistry, Biophysics or related science. Experience in one or more of the following areas would be desirable: (1) protein characterization, (2) macromolecular interactions, (3) biophysical methods, (4) chemical modification and recombinant DNA mutagenesis of proteins, (5) peptide synthesis.

We offer an excellent compensation and benefits package and an attractive relocation policy as well as an exciting and active work environment that offers considerable opportunity for personal and professional growth. Resumes and names of three references should be sent to: Nancy Hasson, Employment Administrator, SO100, Smith Kline & French Laboratories, P.O. Box 1539, King of Prussia, PA 19406-0539. We are an Equal Opportunity Employer, M/F/H/V.

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MOLECULAR BIOLOGIST

Sphinx Biotechnologies is a young and rapidly growing company whose mission is to help sick people through discovery, development, manufacturing and marketing of pharmaceuticals targeted towards signal transduction systems involving lipid second messengers.

Molecular Biologist We are seeking a molecular biologist to integrate with our discovery and development programs. The successful candidate will have a Ph.D. in molecular biology, biochemistry or related scientific field, at least three years of postdoctoral experience, expertise in the use of recombinant DNA techniques for the expression of proteins, and demonstrated ability to interact with a multidisciplinary research team.

Sphinx Biotechnologies offers excellent compensation and benefits as well as an attractive relocation policy. We are located in the Research Triangle area of North Carolina which offers excellent living conditions and outstanding schools. For confidential consideration, please forward your curriculum vitae, list of publications and names of three references to:

Sphinx Biotechnologies Corporation
Position 104
Post Office Box 727
Durham, NC 27702-0727
TOXICOLOGISTS

Delta Environmental Consultants, Inc. is seeking experienced toxicologists to assume responsibilities for conducting independent toxicology projects in relation to environmental impact statements, hazardous waste management and endangerment assessments; providing project support for site assessments, remedial investigations and engineering activities conducting multiple exposure pathway health risk assessments; preparing exposure guideline documents and managing other projects as assigned.

This individual should have a Master’s degree in Toxicology or a related field, at least two years of work experience as a regulatory or consulting toxicologist and possess strong communication skills, both oral and written. A working knowledge of industrial hygiene practice would be helpful.

Interested candidates should submit their resume and salary requirements to: Deborah L Coleman, Director of Benefits and Employment, DELTA ENVIRONMENTAL CONSULTANTS, INC., 1801 Highway B, Suite 114, St. Paul, MN 55112. EOE M/F.

The perfect environment for people

Delta
Environmental Consultants, Inc.

Forest
Ecosystem Analyst

Responsible for analysis and reporting of data from a national forest monitoring program. Interpret trends and patterns in indicators of forest condition including correlation with spatial and temporal trends in air pollution and other stressors. Requires PhD in statistics, forestry, or ecology and 3 years experience analyzing and reporting forest ecosystem data. Knowledge of forest ecology required. Experience with temporal and spatial analysis, analysis of covariance, sampling methods, experimental design, SAS, and computer programming required as well as excellent written and oral communication skills.

Experience with GIS, database management, and ecosystem or forest modeling is desired. Submit cover letter, resume, unofficial transcripts and the names of three professional references by May 5, 1989 to:

Human Resources
4510-021/D89
NSI Technology Service Corp.
1600 SW Western Blvd.
Corvallis, OR 97333

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Research Assistants/Associates
Biochemistry/Molecular Biology

Genentech, Inc., a leader in the field of biotechnology, has opportunities available for Research Assistants/Associates. Working on programs to discover new human pharmaceuticals, these positions offer a challenging opportunity to be a key team participant.

Typical requirements include a BS/MS in Biochemistry, Molecular Biology, Chemistry or closely related scientific field. Candidates must have a minimum of 2 years experience in one or more of the following areas: biochemistry techniques including chromatography, electrophoresis, protein purification and characterization, cell culture and assay development; molecular and cell biology techniques including DNA cloning, expression and sequencing.

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

Genentech, Inc.
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LIFE
SCIENTIST

Atlanta,
Georgia
Office

Syracuse Research Corporation, a leader in the field of assessment of potentially-hazardous substances, is expanding its business and has openings for Scientific Writers with expertise in one or more of the following disciplines:

- Mammalian Toxicology
- Mammalian Biology/Physiology
- Biochemistry
- Epidemiology/Biostatistics
- Pharmacology
- Carcinogenesis/Mutagenesis/Teratogenesis

These non-laboratory positions involve the written evaluation of published experimental data concerning the adverse effects of chemical pollutants upon lab animals and humans and the environmental fate of those chemicals. PhD, MS or other advanced Degree preferred. Applicants must have demonstrated skills in technical writing.

SRC offers competitive salaries and benefits and a creative and challenging work environment. Send resume to:

Syracuse Research Corp.
Personnel Dept.
Merrill Lane
Syracuse, NY 13210

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POSTDOCTORAL RESEARCH ASSOCIATE

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clinical study of neurotransmitter-receptor interactions in the 

emission on receptor: binding, distribution (anatomic and 

urea and interaction with receptors and their possible involvement in 

stitutions. Applicants should have some background in 

urobiology, the pure and applied sciences, including 

molecular genetic, neurochemical, electrophysiological, 

behavioral and clinical analyses of neurotransmitters and 

 receptors and their possible involvement in neurological 

mechanisms.\footnote{UCLA, Los Angeles, CA 90024}

RESEARCH ASSISTANT

Cedars-Sinai Medical Center, an 1120-bed teaching 

research facility, has a postdoctoral position available in 

molecular biology/genetics to analyze genome structure, 

junction, and evolution around the alpha-globin gene 

complex. \footnote{Cedars-Sinai Medical Center Employee 

Relations 8700 Beverly Boulevard Brown Box 5304, Los 

Angeles, CA 90048}

RESEARCH ASSOCIATE in neurophysiology, 

involves patch clamping and whole cell recording from 

photoreceptors of Drosophila and larger flies. Studies 

concern the light-dependent cation channel, effect of 

various agents on the photoreceptor, and noise analysis 

of photoreceptor mutants. Ph.D. in biology or neuro- 

physiology with strong experience in single cell electrical 

recording is desirable. Send curriculum vitae, reprints, 

and three letters of reference to: Dr. R. S. Stephenson, 

Department of Biological Sciences, Wayne State Uni-

derity, Detroit, MI 48202. Telephonne: 313-577- 

2869. An Equal Opportunity/Affirmative Action Employ-

ORAL IMMUNOLOGIST

The Department of Pathology and Laboratory Medi-

cine at Mount Sinai Medical Center of Greater Miami is 

seeking an AP/CP Board-certified pathologist to occup-

a full-time position in the department. The 

candidate must have training and experience in DNA 

in situ hybridization and will be expected to direct a DNA 

in situ hybridization research laboratory. The candidate 
must also have a strong background in clinical pathology 

and immunohistochemistry with particular emphasis and 

expertise in oncologic pathology and a proven track 

record of publications in this area. The position also 

entails teaching of pathology residents and medical stu-

dents. Send curriculum vitae to: Morton J. Robinson, 

M.D., Director, Department of Pathology and Labora-

tory Medicine, Mount Sinai Medical Center, 6300 

Alton Road, Miami Beach, FL 33140.

RESEARCH ASSOCIATE IN MUSCLE PRO-

TEIN CHEMISTRY to study structure-function rela-

tionships in muscle calcium-regulatory and -transport 

proteins. Research involves proteins/p peptide purification, 

protein sequencing, and structural changes in a 

well-equipped, established laboratory. Salary dependent 

on training and experience. Respond to: Dr. John H. 

Collins, Department of Biological Chemistry, Uni-

versity of Maryland School of Medicine, Baltimore, 

MD 21201. Equal Opportunity Employer.

RESEARCH FELLOW IN NEUROPHYSIOLOGY

Experience investigating neuroanatomical and neuro-

immunohistochemical central nociceptive mechanisms 

with some commitment to rodent neurochemistry. De-

indicated MGH-Harvard Neuroscience Center. Position 

available 1 September 1989. Salary range commensurate 

with experience. Send credentials to: Dr. Charles Pol-

ett, Massachusetts General Hospital, Boston, MA 

02114.
**Director, Environmental Toxicology Division**

Health Effects Research Laboratory
Research Triangle Park, NC

**U.S. Environmental Protection Agency**
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**BS/MS SCIENTISTS**
Pharmaceutical Research

Lilly

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The U.S. Environmental Protection Agency (EPA) is seeking candidates for the position of Director, Environmental Toxicology Division, Health Effects Research Laboratory (HERL). This position is located in Research Triangle Park, NC and is a permanent full-time position with a salary range of $57,159 to $74,503 per annum, commensurate with qualifications. HERL has a staff of about 300, over 100 of whom hold doctoral level degrees. The Laboratory has a diverse program which includes in vitro, animal, human clinical, and epidemiological research designed to address issues related to the health effects of air and water chemical and biological pollutants.

The Environmental Toxicology Division (ETD) conducts research to determine the health effects of inhaled environmental pollutants. The research is designed to determine cause and effects relationships at pollutant concentrations which mimic those occurring in the environment. Particular emphasis is placed on the development and application of improved methods which enable significant advancement in the knowledge of the health effects of air pollutants. Intense investigations center on the pulmonary and cardiovascular systems, the immune system, host defense mechanisms against infectious and neoplastic disease and other extrapulmonary systems which are susceptible to inhaled pollutants. The Division serves as a primary technical resource within the Agency for activities requiring expertise in animal inhalation studies and in the health effects of common air pollutants. The program includes both intramural investigations and extramural arrangements with universities, industry, private research institutions and other government agencies. The primary responsibilities of the Director are to direct and manage the program. This includes developing the program to meet the evolving needs of EPA, presenting the program, developing and managing budgets, supervising the staff, directing the progress of the program, and ensuring the scientific quality and productivity of the program.

The preferred candidate for this position would possess the following qualifications:

1. Advanced degree in a biological or environmental discipline with at least six years of professional experience in either of these areas. Applicable graduate coursework may be substituted for a portion of the preferred experience.
2. Experience as a supervisor of a scientific/professional staff.
3. Recognized scientific expertise as evidenced by multiple publications in peer-reviewed literature and invitations to participate in national and international meetings/panels.
4. Proven ability to provide leadership in directing the development and progress of a creative and effective multidisciplinary research program.
5. U.S. Citizenship is required.

Forward curriculum vitae and names of three references prior to May 28, 1990 to: Dr. Lawrence W. Reiter, c/o Terri Burrell, HRMD (MD-29), U.S. Environmental Protection Agency, Research Triangle Park, NC 27711.

For more than a century, scientists at ELI LILLY AND COMPANY have developed innovative, high quality pharmaceutical products. Lilly invests over $500 million annually in research-and-development programs. More than 3,000 scientists at the company's Lilly Research Laboratories are pursuing creative research programs that involve many important health care needs.

To further build its research capabilities, Lilly is seeking self-motivated, innovative scientists to join the Pharmaceutical Research Group and study the physical and chemical characterization of proteins. The ideal candidate will have the following qualifications:

- Bachelor's or Master's degree in biochemistry, organic chemistry or a related discipline.
- Working knowledge of analytical, physical and protein chemistry.
- Skill in quantitative calculations and mathematical concepts.
- Experience with chromatography, electrophoresis, spectroscopy and computer analysis is desirable.

Eli Lilly and Company is committed to scientific excellence. Lilly provides a stimulating professional atmosphere with many opportunities for collaborative, multidisciplinary research. The company offers an attractive total compensation program. Entry level and salary will be based upon each candidate's experience.

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Eli Lilly and Company
Lilly Corporate Center
Indianapolis, Indiana 46285
RESEARCH ASSOCIATE
PHARMACOLOGY ASSISTANT
The Jackson Laboratory, a center for research in mammalian genetics located on the coast of Maine, has an immediate opening for a research associate/professional assistant to conduct basic research experiments aimed at elucidating the mechanisms of ras protein action. Experimental methods will include in vitro mutagenesis, gene transfer, protein biochemistry and cell genetics. Applicants should have a Ph.D. and research experience required. Applicants should send curriculum vitae and names of three references to: Harold Wheeler, Employment, Jackson Laboratory, 650 Main Street, Bar Harbor, ME 04609. Telephone: 207-288-3871. Active Affirmative Action/Equal Opportunity Employer M/F.

UNIVERSITY OF SOUTH FLORIDA
RESEARCH ASSOCIATES. Two-year job assignments available immediately. The Division of Pediatric Endocrinology of the USF College of Medicine invites applications. Applicants should have M.D. or Ph.D. degrees and additional postgraduate experience. Salary commensurate with training/achievement. Applicants should send curriculum vitae and names of three references to: Dr. Barry B. Bercu, Professor of Pediatrics, University of South Florida College of Medicine, All Children's, 8110 N. Figueroa, St. Petersburg, FL 33731-8920. USF is an Affirmative Action/Equal Opportunity Employer.

RESEARCH SCIENTIST
Research Scientist needed to develop synthetic methods for drug absorption research. Require Ph.D. in polymer chemistry and knowledge of using advanced instrumentation such as FT-IR, high-resolution NMR, GPC, pyrolysis GC-MS, and DSC. Strong background in polymer structure correlations to desired biological properties and a working knowledge of polymeric drug delivery systems and special requirement for medical polyesters. Salary: $36,000 per year. Job Order No. 39555252. Contact: Utah Job Service, 1234 South Main Street, P.O. Box 11750, Salt Lake City, UT 84147.

RESEARCH VETERINARIAN to perform surgical procedures to derive germ-free animals and perform necropsy. Test all vaccines, reagents and biological raw materials (serum) pursuant to federal regulations and in-house standards, utilizing cell culture, virus titration, immunodiffusion, biochemical analysis and animal testings. Sample vaccines for federal agencies. Supervise technical staff on overhead supervision of laboratory and facility inspections. Provide veterinary expertise in marketing efforts at trade fairs. Requires D.V.M. or equivalent, plus M.S. in microbiology or a closely related field, also requires some experience with animal vaccinations, cell culture, virus isolation, virus titration, and immunology. Salary $27,000 per year 40 hours per week. 5:00 a.m. to 5:00 p.m. Apply or send resume to: Job Service, 150 Des Moines Street, Des Moines, IA 50309. Refer to Job #1A 0224305.

SCIENTIFIC PROGRAMMING
Fein-Marquart Associates (FMA) is a small, established, computer software research and development firm specializing in scientific programming and database systems, especially chemical information systems and laboratory information management systems. Projects vary in size and use a variety of sophisticated computer environments—from mainframes to large minicomputers. As part of its current expansion, FMA seeks experienced programmers with scientific degree(s) and Fortran experience. Please send resume to: Fein-Marquart Associates, Inc., 7215 York Road, Baltimore, MD 21212. Telephone: 301-821-5980.

SUPERVISING RESEARCH CHEMISTS. FAA Civil Aeromedical Institute, Oklahoma City, Oklahoma. Two positions in Career Civil Service. One position will supervise the Combustion Toxicology Research Program, the other position will be responsible for developing the team and new program in Forensic Toxicology Research. Contact: Shirley Cox, 405-586-4806, for qualification requirements and application forms. Equal Opportunity Employer.
3 LC instruments to improve your protein purification

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