Personnel Placement

**POSITIONS WANTED**

**Biopharmaceutics/Pharmacokinetics, Ph.D.** with 11 years of experience in pharmaceutical industry evaluating clinical protocol, training representatives, professional relations or similar position. References and résumé available upon request. Box 37, SCIENCE.


**Positions Open**

Environmental/Comparison Physiologist, Ph.D. Established investigator with publications in thermoregulation, circulatory development and water conservation. Current funding in ethanol research. Seeks academic position offering teaching and research opportunities. Box 27, SCIENCE.

Insect Biochemist, Ph.D. Entomology, M.S. Biochemistry; expert HPLC, expert enzyme, expert hormones, expert Macintosh, antibodies, PolyDNA virus, pheromone studies. Seeks position. Box 22, SCIENCE.

**ANATOMY POSITION, UNIVERSITY OF ILLINOIS**

The Division of Life Sciences invites application for a tenure-track position in anatomy and physiology at the rank of assistant professor. Requirements include a Ph.D. in anatomy and experience in undergraduate teaching. Other desirable experience include interdisciplinary curriculum development, scholarship, and teaching students in physical/occupational therapy programs and life science majors. Duties include teaching gross human anatomy, neuroanatomy, and anatomy/physiology courses. Projected starting date is Summer 1989. Submit a résumé and a statement of teaching goals by 5 April 1989 to: Mr. Michael Miles, Director of Personnel, University of New England, Biddeford, ME 04005. The University of New England is an Affirmative Action/Employment Opportunity Institution.

**ASSISTANT PROFESSOR IN ANATOMY.** Applications are invited from qualified individuals possessing a Ph.D. or M.D. degree and a minimum of two years of postdoctoral studies, for a position at the rank of assistant professor. The responsibilities of the position include interdisciplinary teaching and research, and causing an active, productive research program in cell and molecular biology. Applications should include curriculum vitae and the names of three references, and sent before 1 May 1989 to: Anthony J. Smith, Ph.D., Professor and Chairman, Department of Anatomy, Rush Medical College, 1653 West Congress Boulevard, Chicago, IL 60612. Rush University is an Equal Opportunity/Affirmative Action Employer.

**ASSISTANT PROFESSORS, School of Pharmacy, University of Colorado.** Applications are invited for two tenure-track positions at the assistant professor level in pharmacology/pharmaceutical chemistry. Positions required are for an appropriate area and relevant postdoctoral experience. Preference will be given to those having a graduate degree in pharmacy. The successful candidate will be expected to develop strong extramurally-funded research programs in the areas of interest. Other responsibilities include teaching at the graduate and undergraduate levels. Applications should submit curriculum vitae, a one-page summary of research plans, and the names and addresses of three references by 20 April 1989 to: Dr. John A. Thompson, School of Pharmacy, University of Colorado, Boulder, CO 80309-0297. The University of Colorado is an Equal Opportunity/Affirmative Action Employer.
ASSISTANT DIRECTOR
DIAGNOSTIC MOLECULAR GENETICS
The Department of Pathology (Diagnostic Laboratories) of Vanderbilt University Medical Center invites applications for the position of Assistant Director, Immunopathology Laboratory, Division of Molecular Genetics. Candidates should have wide, varied and extensiv e experience in molecular biology techniques with particular interest in the development of diagnostic tests. Faculty appointment commensurate with credentials. Please submit curriculum vitae, synopsis of research interests and three professional references to: Thomas L. McCurley, M.D., Director, Immunopathology Laboratory Room 4065, The Vanderbilt Clinic Vanderbilt University, Medical Center Nashville, TN 37232-5310 Vanderbilt University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR
CELL PHYSIOLOGY/ ELECTRON MICROSCOPY
The Biology Department at the University of Puget Sound invites applications for a tenure-track position in the areas of cellular physiology and electron microscopy to begin August 1989. Requires Ph.D., strong background in cellular animal physiology, and expertise in electron microscopy, and a commitment to undergraduate teaching. Special areas of interest include endocrinology, neurobiology, immunology and epidermal transport. Teaching responsibilities include introduction to biology majors, participation in the introductory biology program, offering an advanced elective specialty course and providing department with expertise in electron microscopy. Initiate/maintain a strong research program involving undergraduates, participate in student advising and development, contribute to curriculum, governance, and continue professional development. The Department has nine full-time faculty with diverse expertise and modern facilities including an electron microscope laboratory with a Zeiss EM 109 and 110, SEM. Submit letter describing interests and goals, curriculum vitae, transcripts and three letters of reference by 7 April 1989 to: Physiology Search, University of Puget Sound, P.O. Box 7297, Tacoma, WA 98407. An Equal Opportunity/Affirmative Action Educator/Employer.

THE UNIVERSITY OF CALGARY
ASSISTANT PROFESSOR IN BIOCHEMISTRY
The University of Calgary Department of Biological Sciences invites applications for a tenure-track appointment in Biochemistry. Applications from the assistant professor level effective 1 January 1990. Requirements include a minimum of 2 years of postdoctoral experience and a record of creativity and productivity in research and teaching. Potential for teaching and developing an independent research program. Applicants with an interest in any aspect of contemporary protein biochemistry will be considered but those with experience in aspects of the structure and function of membrane proteins, glycoproteins, or transport and translocation mechanisms, and a willingness to teach a course on modern membrane biochemistry will be preferred. The Biochemistry Division of the Department of Biological Sciences is well equipped for research in biochemistry and contributes to the graduate program in coordination with the Department of Medical Biochemistry. The Division is well-equipped for research in protein biochemistry and DNA sequencing. State-of-the-art equipment for biological fermentations, 400- and 500-MHz NMR and access to the University's CYBER 205 supercomputer are available. Salary and rank are commensurate with qualifications and experience. In accordance with Canadian immigration requirements, preference will be for Canadian citizens and permanent residents of Canada. The University of Calgary is committed to employment equity. Qualified applicants may send curriculum vitae, a detailed description of their research objectives and arrange to have three letters of reference sent by 1 May 1989 to: Dr. J. A. Thorpe, Head, Department of Biological Sciences, University of Calgary, 2500 University Drive N.W., Calgary, Alberta, Canada T2N 1N4.
POSITIONS OPEN

ASSOCIATE IN CLINICAL RESEARCH and SURGERY
BRIAGH AND WOMEN'S HOSPITAL
BOSTON, MASSACHUSETTS

Divison of Cardiac Surgery at Harvard Medical School and Brigham and Women's Hospital has an opening for an Associate. Applicants should have experience with data entry, and basic programming skills to head up large data bank for coronary artery surgery. Excellent wages and benefits.

Send resume to:
Lawrence H. Cohn, M.D.
Chief, Division of Cardiac Surgery
Brigham Hospital
75 Francis Street
Boston, MA 02115

ASSOCIATE IN PHYSIOLOGY
UNIVERSITY COLLEGE OF MEDICINE

Applications are invited for faculty positions at the associate (non-tenure) level. Individuals whose interests coincide with our programs in cellular and molecular aspects of endocrine regulation, nervous system signaling or membrane structure and function are particularly encouraged to apply. Candidates should have the Ph.D. or equivalent degree and at least 2 years of postdoctoral research experience. Please submit a letter of application, curriculum vitae, three reprints of recent experimental work, and names of at least three references, to:

Dr. Robert E. Fellows
Department of Biophysics
The University of Iowa
5-660 Bowen Science Building
Iowa City, IA 52242

The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSITIONS OPEN

BIOCHEMIST

A Midwest manufacturer of specialty ingredients for the animal feed industry seeks a biochemist to join its technical service group. The position involves traveling with the company's sales force to assist technical training in the field, and to meet with customers. The individual will have an M.S. or Ph.D. degree in biochemistry and will possess excellent verbal and written communication skills and enjoy communicating science to the feed industry. The position requires a Ph.D. in biochemistry or related field. An excellent compensation package is offered. U.S. citizenship required.

Please submit resumes to: J. W. Harms, Executive Director of Sales, Diamond Industries, Inc., P.O. Box 70, Des Moines, IA 50301.

An Equal Opportunity Employer.

BIOLOGICAL PHYSICS
CORNELL UNIVERSITY

SENIOR RESEARCH ASSOCIATE for position as a supervising scientist for the Developmental Resource for Biophysical Imaging and Opto-electronics. Will have operating responsibility for the resource laboratories and ample opportunity for collaborative work. Strong modern physical optics to the molecular biophysics of cellular dynamics. Current emphasis on electro-optical microscopic image acquisition, digital image analysis, non-linear optics, photoacoustic and photothermal, confocal imaging, picometer imaging interferometry. Ph.D. in experimental biophysics, optical or chemical physics or biophysical chemistry required. This position requires laboratory management responsibility as well as research opportunity for interdisciplinary research with collaborating biophysicists and biologists. Some postdoctoral experience desirable.

A POSTDOCTORAL RESEARCH ASSOCIATE position is also available in the Developmental Resource for Biophysical Imaging and Opto-electronics for research, innovative biophysical instrumentation development and opportunities for interdisciplinary research in molecular and cellular biology. Send resume, statement of research interests, names of three referees or letters of recommendation to: Professor Watt W. Webb, Cornell University, Applied and Engineering Physics, Clark Hall, Ithaca, NY 14853-2501. Cornell University is an Equal Opportunity/Affirmative Action Employer.

BIOLOGIST:

A tenured-track position at the rank of assistant professor of Biology. Instructional responsibilities emphasize the presentation of an evening offering of introductory biology fall and spring semesters and an opportunity to offer graduate courses. A Ph.D. is required. Applications are invited for this tenured-track position. Candidates are expected to develop a productive research program. Send curriculum vitae, a description of research plans and names and addresses of three references to: Harold G. Marshall, Chairman, Department of Biological Sciences, Old Dominion University, Norfolk, VA 23508. Review process will begin 1 April 1989 and will remain open until a qualified candidate is found. An Affirmative Action/Equal Opportunity Institution and requires compliance with the Immigration Reform and Control Act of 1986.

CHEMICAL ENGINEERING
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Applications are invited for a tenure-track FACULTY POSITION in the Department of Chemical Engineering. Applicants should have a Ph.D. in chemical engineering and demonstrate excellence in academic research, and should have a strong interest in teaching graduate and undergraduate chemical engineering. Applicants are preferred with interest in either the scientific and engineering or chemical reaction engineering and applied to processing of advanced materials. Exceptional candidates for senior level positions will be considered. Interested applicants are encouraged to apply by sending the names of at least three references, graduate transcripts and a description of research interests to: Dr. Robert A. Brown, Head, Department of Chemical Engineering, Massachusetts Institute of Technology, Cambridge, MA 02139. Material should be received by 14 April 1989. MIT is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

POSITIONS OPEN

CARDIOVASCULAR FACULTY POSITION

Applications are invited for a tenure-track faculty position in the area of cardiovascular physiology and control of circulation at the associate or full professor. Candidates must have a Ph.D. or M.D. degree and sufficient postdoctoral teaching and research experience to serve as associate professor of medicine. This position will complement an interactive group of faculty with strong commitment to the study of cellular and integrative aspects of neural control of physiological systems. The successful candidate will be expected to develop and maintain a strong independent research program and to participate in teaching and research activities. Interested applicants should submit by 1 June 1989 curriculum vitae, statement of research goals and accomplishments, summary of teaching experience, and the names of four references to:

Emall Koushanpour, Ph.D.
Chairman, Search Committee
Department of Physiology
Northwestern University Medical School
303 East Chicago Avenue
Chicago, IL 60611

Telephone: 312-908-8220

Northwestern University is an Affirmative Action/Equal Opportunity Employer. Hiring is contingent upon eligibility to work in the United States.

CELL BIOLOGIST/ELECTRON MICROSCOPIST

The Department of Neurobiology and Neuroendocrinology, University of Connecticut, Storrs, Connecticut, is soliciting applications for an anticipated tenure-track position as associate/full professor at the rank of assistant professor of neuroendocrinology. The individual will join the Biology Department in the fall of 1990. A Ph.D. or M.D. degree is necessary. The position will require participation in the Department's graduate program, development of an independent research program, and supervision of both research and teaching activities. The commitment of the successful candidate to conducting research focusing on behavior and the resulting development of an active external laboratory should be emphasized. The successful candidate will have a strong research program in an area of interaction between the cellular and molecular biology and the neuroendocrine systems. Applications are invited from candidates interested in any area of neuroendocrinology. Basic research should focus on the characterization, development, and control of endogenous regulatory peptides, with an emphasis on aspects of integrative systems. Interested applicants should submit a letter of inquiry, curriculum vitae, and the names of three references to:

Dr. Harold D. Stepansky, Chair
Department of Neurobiology and Neuroendocrinology
University of Connecticut
Storrs, CT 06269

Candidates are encouraged to apply to:

WOMEN'S PHYSIOLOGY

Applications are invited for a tenure-track position in the area of cardiovascular physiology and control of circulation at the associate or full professor. Candidates must have a Ph.D. or M.D. degree and sufficient postdoctoral teaching and research experience to serve as associate professor of medicine. This position will complement an interactive group of faculty with strong commitment to the study of cellular and integrative aspects of neural control of physiological systems. The successful candidate will be expected to develop and maintain a strong independent research program and to participate in teaching and research activities. Interested applicants should submit by 1 June 1989 curriculum vitae, statement of research goals and accomplishments, summary of teaching experience, and the names of four references to:

Emall Koushanpour, Ph.D.
Chairman, Search Committee
Department of Physiology
Northwestern University Medical School
303 East Chicago Avenue
Chicago, IL 60611

Telephone: 312-908-8220

Northwestern University is an Affirmative Action/Equal Opportunity Employer. Hiring is contingent upon eligibility to work in the United States.

CELLULAR BIOLOGIST (IMMUNOLOGIST)—Tenure-track assistant professorship starting fall 1989. We seek a cellular biologist with expertise in immunology who will teach upper level and graduate courses in these areas, and share teaching general biology. Research opportunities include a modern laboratory and much equipment. Send curriculum vitae and three letters of reference by 17 April to: Dr. Alfred Claert, Search Committee Chairperson, Department of Biology, The University of West Florida, Pensacola, FL 32514. Equal Opportunity/Affirmative Action Institution.

Cellular Biology, Indiana Dunes National Lakeshore, Indiana, invites applications for CHIEF SCIENTIST. Incumbent is responsible for all park research activities in the fields of geology, soil science, hydrology, air quality, zoology, botany, and fire ecology as well as personnel and financial matters of the division. Also, conducts studies in own area of expertise. Must be a U.S. citizen. Ph.D. or equivalent combination of professional experience and graduate education required. The positions are full-time, year-round positions and are located in Indiana Dunes National Lakeshore. Salary commensurate with experience. Further details from: Glenn P. Jones, Director of Research: 219-926-7561, extension 411. The National Park Service is an Equal Opportunity/Affirmative Action Employer.

17 MARCH 1989
PERSONNEL PLACEMENT 1503
DEPUTY DIRECTOR GENERAL—The International Center for Living Aquatic Resource Management (ICLARM), which carries out research in aquaculture, capture fisheries and coastal area management in tropical developing countries, is seeking a Deputy with a strong background in the aquatic sciences. The Deputy’s main role will be to foster relationships with donors and represent the Center internationally. Send applications and three references to: Director General, ICLARM, P.O. Box 1501, Makati, Philippines, or Fax: (63-2) 816-3185.

DIRECTOR AND PROFESSOR, School of Natural Resources and Associate Dean, College of Agriculture, The Ohio State University. Applications and nominations are invited for the position of Director of the School of Natural Resources, which offers the only comprehensive, multi-disciplinary undergraduate and graduate academic programs in natural resources in Ohio. At present, there are 27 full-time faculty and approximately 250 undergraduate and 45 graduate students in the School. The Director, who reports to the Vice President and Executive Dean of the College of Agriculture, has fiscal and administrative responsibility for all instructional, research, and public service programs in the School. Qualifications for the position include an earned doctorate and a record of research and teaching consistent with appointment as a tenure-track faculty member. The successful candidate will have demonstrated administrative experience and leadership ability, preferably in a multi-disciplinary academic unit. Candidates should have academic degrees in natural resources with an emphasis in one of the following areas: Forestry, Wildlife Management, Agricultural Economics, Recreation, or Planning. Nominations and expressions of interest will be received until 15 April 1989 or until suitable candidates have been identified and nominated. Send resumes by 15 April 1989. A position description and application materials will be provided. Address correspondence to: Dr. James H. Brown, Chair, Search Committee, 210 Kottman Hall, The Ohio State University, Columbus, OH 43210-1085 or call: 614-292-2265. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

Yale University

DEPARTMENT OF PHYSIOLOGY/GENETICS

Yale University invites applications from individuals with experience supporting the use of distributed computers in a forefront academic institution. The Director will supervise all staff and work with a small, dedicated personnel and provide technical advice and assistance to the faculty in the science and engineering departments and to the Office of the Provost. Parents are invited to discuss applications of the full range of computers (micros to super). The Director also represents the interests of our scientific computing community with vendors and with various consortia (e.g., DECUS, Apple University Consortium, the national supercomputer centers). Applicants should have a doctoral degree or equivalent in some field of science or engineering. The possibility exists for combining this position with a teaching or research appointment in the science or engineering department that corresponds most directly with the candidate’s interests. Review of candidates will begin upon receipt of applications or nominations. To be considered applications must be received by 1 May 1989. Send resumes with the names of three references to: Professor R. A. Apfel, Chair, SECF Search Committee, Council of Engineering, P.O. Box 208209, Yale University, New Haven, CT 06520. Yale University is an Affirmative Action/Equal Opportunity Employer and encourages applications from members of minority groups.

EASTERN KENTUCKY UNIVERSITY

ECOLOGIST

One-year visiting position or sabbatical leave replacement beginning 15 August 1989, teaching biology and environmental science at the Eastern Kentucky University, Richmond, KY. Doctorate required. Send curriculum vitae, publications of all transcripts, and three letters of reference to: Bruce MacLean, Department of Natural Science, Eastern Kentucky University, Richmond, KY 40475 by 7 April 1989. Telephone: 606-622-2319. The University is an Equal Opportunity/Affirmative Action Institution.

ENVIRONMENTAL BIOLOGIST

The Department of Biology, University of Northern Iowa, invites applications from qualified individuals for a Ph.D. degree, with postdoctoral or equivalent experience preferred, for a new tenure-track position effective August 1989. The applicant’s research should address the toxic effects of air, water, or soil-borne pollutants and/or hazardous substances upon organisms in ecological systems. The research should involve participation by undergraduate and graduate students. Teaching responsibilities typically include three courses per year from the following: specialties, introductory biology, and general education. Research and consulting opportunities exist with the on-campus Center for Safe and Economic Management of Solid Waste and Hazardous Substances. Excellence in both teaching and research is expected. Salary is competitive, and rank will be commensurate with the candidate’s background and experience. Applicants should send curriculum vitae, graduate transcripts, a statement of interests and goals in both teaching and research, references, and four letters of reference by 15 April 1989 to:

Dr. E. Russell TelTapele
Department of Biology
University, New Paltz, NY
Cedar Falls, IOWA
50614—0421

The University of Northern Iowa is an Equal Opportunity Educator and Employer with a comprehensive plan for Affirmative Action. The University specifically invites and encourages applications from women and minorities.

FACULTY POSITION IN X-RAY CRYSTALLOGRAPHY OR STRUCTURAL BIOLOGY

Baylor College of Medicine

We invite applications for two tenure-track positions in macromolecular x-ray crystallography and related areas of structural and theoretical biophysics. The department is seeking outstanding scientists who are committed to establishing productive research programs in the expanding structural biophysics group. Preference will be given to applicants at the assistant professor level, but more senior candidates will be considered. A new x-ray laboratory, equipped with state-of-the-art instruments, has been established. Applicants should send curriculum vitae, reprints, and a statement of present and future research interests, and have three letters of reference sent to: Dr. F. A. Quiocho, Howard Hughes Medical Institute, Department of Biochemistry, Baylor College of Medicine, Houston, TX 77030. An Equal Opportunity Employer.
**NATIONAL INSTITUTES OF HEALTH**

**POST DOCTORAL FELLOWSHIP**

**TRANSGENIC MICE**

Experience in molecular biology to work in laboratory using transgenic mice to study the pathogenesis of viruses (e.g., HIV and HSV) and autoimmune diseases. Initial appointment will be for two years, with renewals on a yearly basis. Starting salary range, depending on experience, is $24,000 to $40,000 per year. The position is available immediately. Send Curriculum Vitae and names of references to Dr. Lois Salzman, Deputy Director, Intramural Research Program, National Institute of Dental Research, National Institutes of Health, 9000 Rockville Pike, Building 30, Room 121, Bethesda, Maryland 20892.

NIH is an Equal Opportunity Employer

---

**POSTDOCTORAL POSITIONS**

BOEHRINGER INGELHEIM PHARMAECUTICALS, Inc. is engaged in the discovery, development, manufacture and marketing of novel therapeutic agents. Our commitment to research has created the opportunity for the following postdoctoral positions in our drug discovery programs.

**Cellular/Molecular Immunologist**

This individual will conduct research in the field of neutrophil or lymphocyte adhesion or adhesion molecule related functions. RESPOND TO DEPT. JC-1S-PDRR

**Cell Biologist**

This position requires an interest in cancer and/or viral immunology. The incumbent will perform important research projects in this area. RESPOND TO DEPT. JC-1S-PDVM

**Biochemist**

Candidates should have a background and interest in enzymology, physical organic chemistry or kinetics. Research goals will be to investigate the kinetics, specificity and mechanism of viral proteases. RESPOND TO DEPT. JC-1S-PDMS

BOEHRINGER INGELHEIM offers a competitive salary and benefits package, modern and fully equipped laboratories and the opportunity to apply your education and experience to challenging areas of research. Our Research and Development Center is situated in a very desirable area of SOUTHWESTERN CONNECTICUT (in DANBURY).

Candiates interested in these positions should send a curriculum vitae, along with the names of three references, indicating appropriate dept. code, to: BOEHRINGER INGELHEIM PHARMAECUTICALS, Inc., 90 East Ridge, PO Box 368, Ridgefield, CT 06877. We are an equal opportunity employer m/f/h/v.

---

**Medical Affairs Officer**

T CELL SCIENCES, INC. is a health care company engaged in the development and marketing of therapeutic and diagnostic products. Positions at T CELL SCIENCES include a career-enhancing environment and offer the opportunity to interface with internationally recognized scientists in converting their discoveries into products.

We are seeking an experienced Medical Affairs Officer to participate in planning, conducting and evaluating a clinical trial program involving recombinant product(s) in potential therapies for myocardial injury and events involving tissue damages. Clinical trials for future products will include autoimmune diseases and certain cancers. The individual will be responsible for identifying and coordinating multicenter clinical trials; coordinating the development of clinical protocols; reviewing and interpreting all safety and efficacy issues of the therapeutic agents under evaluation; and preparing clinical study reports, IND updates and NDA submissions.

The successful candidate will have an M.D. degree (Board Certified in Internal Medicine) with additional training in one or more of the following disciplines: immunology, cardiology, infectious diseases and rheumatology; 3 years experience in pharmaceutical drug trial experience, knowledge of regulatory affairs, and exceptional organizational, communications and management skills.

Interested candidates please forward resume, C.V., salary requirements and description of career goals publication or abstracts to Paul D. Freeman, T CELL SCIENCES, Inc., 38 Sidney St Cambridge, MA 02139.

---

**Important Contributions To An Essential Effort.**

If you've been looking for an organization where your contributions will make a strong and positive impact, may we suggest The MITRE Corporation. A not-for-profit organization providing expert systems engineering solutions to military and civil agencies of the U.S. Government, we are currently providing technical support to manage the nation's hazardous waste problems for the EPA and to meet the mandates of the Defense Environment Restoration Act. These are the essential efforts that can make excellent use of your proven expertise.

**Toxicologists**

McLean, VA & San Antonio, TX

We currently have openings at our Washington Center and our San Antonio Site for professionals with high levels of skill and dedication to provide quality assurance of human health risk assessments performed by contractors on Air Force Installation Restoration Sites. Specific responsibilities include evaluating work plans for adequacy of approach; reviewing risk assessments for accuracy, completeness and validity of conclusions; and analyzing expert risk reductions. You will assist the Air Force in coordinating activities with EPA regional and state offices to ensure regulatory compliance. To qualify, you must have an advanced degree in Toxicology or related discipline, plus at least 3 years of experience in conducting chemical exposure and risk assessments, preferably at hazardous waste sites. Familiarity with CERCLA/SARA, the RI/FS process and EPA guidelines for conducting risk assessment at NPL sites is essential. Excellent communications skills a must.

ENDOCRINOLOGIST/PHYSIOLOGIST: KRUG International, support contractor for the Bio- medical Sciences Division of the National Aeronautics and Space Administration, seeks a Ph.D. with research experience in fluid and electrolyte regulation. The candi- date’s research will be expected to focus on hormonal and/or neural regulation of acute and chronic volume changes. Training on human clinical research with a physiological emphasis is preferred. Applicants should submit curriculum vitae and four references to June E. Richmond, Human Resources Manager, KRUG International, P.O. Box 58827, Houston, TX 77258. An Equal Opportunity Employer/employment eligibility verification required.

FACULTY POSITION: ANALYTICAL MICROSCOPIST/ MATERIALS SCIENTIST

Applicants are sought for a full-time tenure-track position at the assistant professor level. A strong back- ground in analytical electron microscopy and a Ph.D. in materials science or a related discipline is required. Candidates should be interested in teaching undergradu- ate and graduate courses and in developing a strong research program. Proposed starting date is negotiable. In order to ensure full consideration, applications should be received by 1 May 1989.

Northwestern University Department of Materials Science and Engineering

Evaston, IL 60208

FACULTY POSITIONS

The Department of Molecular Genetics, Biochemistry and Microbiology invites the opening of several tenure-track faculty positions. These are in the areas of (i) human genetics, particularly for an individual currently interested in studying diseases affecting the cardiovascular system, (ii) protein chemistry, the utilization of genetic techniques to study structure-function, and (iii) molecu- lar immunology. Appointments can be at any level. Generous start-up and start-up monies are available. The current department has 27 faculty and 50 graduate students and maintains core facilities in cell culture, recombinant technology including DNA sequencing, and transgenic mouse production. Interested applicants should submit curriculum vitae, brief description of anticipated research, and names of three qualified refer- ences to: Jerry B. Lingrel, Ph.D., Professor and Chair, Molecular Genetics, Biochemistry and Microbiology, University of Illinois Medical Center, 1155 N. University St., Chicago, IL 60612.

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

FACULTY Positions IN APPLIED MOLECULAR BIOLOGY/BIOCHEMISTRY

The Department of Chemical and Biological Sciences at the Oregon Graduate Center is expanding its biotech- nology program and invites applications for three faculty positions in molecular biology and protein engineering. We are interested in recruiting scientists to work in the fields of (i) molecular biology of yeast/fungi, (ii) molecular biology/ biochemistry of prokaryotic soil microorganisms, and (iii) genetic engineering of proteins. Rank and salary are open. Investigators who value an environment fostering excellence in research are encour- aged to apply.

Minimum requirements: Ph.D., several years post- doctoral experience, and ability to develop a strong research program and graduate level courses in areas of specialty. This position will be made at the level of assistant professor or higher depending on qualifications.

Send curriculum vitae, a statement of research inter- ests, and the names, addresses, and telephone numbers of three references to:

Dr. Michael H. Gold, Search Committee Chair Department of Chemical and Biological Sciences Oregon Graduate Center 19600 N.W. Von Neumann Drive Beaverton, OR 97006–1999 Equal Opportunity Employer.

FACULTY POSITIONS IN BIOLOGICAL SCIENCES

COMPARATIVE PHYSIOLOGIST: Tenure-track assistant/associate professor for fall 1989 at a comprehensive university of 25,000 students, located in a pleasant community 60 miles west of Chicago. A Ph.D. and postdoctoral experience are required. The successful candidate will be expected to maintain a vigorous re- search program, and direct graduate (M.S. and Ph.D.) students.

Candidates must have a broad knowledge of compara- tive physiology and preference will be given to a person with a research program in invertebrate physiology. To teach comparative physiology and participate in intro-ductory courses.

Send curriculum vitae, statement of research goals, three letters of recommendation, and representative reprints by 15 August 1989 to: Dr. Marvin J. Stazzyk, Chairman, Department of Biological Sciences, Northern Illinois University, DeKalb, IL 60115–2801. Telephone: 815-753-1753. The University is an Equal Opportunity/Equal Opportunity Employer.

FACULTY POSITIONS IN X-RAY CRYSTALLOGRAPHY

The Department of Biological Chemistry and Molecu- lar Pharmacology, State University of New York and Dana-Farber Cancer Institute are seeking applications to fill two positions at the assistant professor level to be located at the Dana-Farber Cancer Institute. Applicants should be interested in using the principles of crystallographic methods to solve problems in structural biology and biochemistry and should have an appropriate combination of related graduate and postdoctoral research experience. Applica- tions should be sent to Dr. Jerry L. Gall, Chairman, Department of Biological Chemistry and Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. The University is an Equal Opportunity Employer.

IMMUNOLOGY POSITION OPENING

Assistant/associate professor, tenure-track. Candidates should have research interests in the molecular basis for immune responses. Salary and level are negotiable. Interested candidates should submit curriculum vitae and three letters of reference to: Dr. M. P. Stobo, Chairman, Committee, Duke University School of Medicine, Durham, NC 27710. Duke University School of Medicine is an Equal Opportunity/Affirmative Action Employer.

LABORATORY SUPERVISOR

HISTOLOGY LABORATORY SUPERVISOR

Experienced ASCP certified histology technician with 3 years of experience is needed for a high volume private pathology research laboratory located in the Washington, DC metro area near Dulles International Airport. Salary is competitive with appropriate experience and qualifications. Benefits package includes paid vacation, health insurance, 401K retirement plan, and much more. Interested candidates should submit current résumé to: Experimental Pathology Laboratories, Inc., P.O. Box 474, Herndon, VA 22070; or telephone: Cynthia Bono at 703-471-7060 for information. Equal Opportunity Employer M/F/H/V.

MALARIA RESEARCH: TWO POSTDOCTORAL POSITIONS available 1 April 1989 to study: (i) interaction of malarial proteins with red cell membranes; (ii) regulation of gene expression. Applicants with appro- priate training for either position contact or send curricu- lum vitae to: Dr. A. Kilejian, Public Health Research Program, The First Medical Research, P.O. Box 10161, Oak Ridge, TN 37831–0117; Telephone: 212-578-0829. PHRI is an Equal Opportunity/ Affirmative Action Employer.
Manager, Ophthalmic/ Sterile Products

The Consumer Products Division of Pfizer, located in Parsippany, NJ, is recognized worldwide for its quality ophthalmic/ sterile products such as Visine, and for proprietary over-the-counter health care products. This growth oriented division has immediate challenges for a scientist with strong leadership abilities, a background in production and solid research capabilities.

In this key position, you will help develop new products and improve existing ones. This will involve supervising both chemists and research assistants in all aspects of product development, including animal and human studies, evaluative testing and product performance. You will also develop test methodologies, coordinate product stability programs and assist in cost savings programs. Your achievements will impact directly on research, production, marketing and sales.

To qualify, you must possess a BS or MS in Chemistry or a related science, and at least five years experience in ophthalmic or sterile liquid dosage form development. A PhD would be a plus.

Pfizer offers a competitive salary and excellent benefits package. For prompt consideration, please forward resume and salary requirements in confidence to: A. J. Murphy, Personnel Director, Pfizer Inc., 100 Jefferson Road, Parsippany, NJ 07054. An equal opportunity employer.

### CHEMIST / BIOCHEMIST

MAAG is the Agrochemical Division of Hoffmann-La Roche with headquarters in Switzerland and subsidiaries in France and the USA. As part of our expansion program, we require a Ph.D. chemist or biochemist with experience in analytical techniques (especially HPLC) to join our Metabolism Section in the Department of Registration and Environmental Studies. Duties will include the study of the behaviour of new candidate plant protection compounds in plants, soil and water. Study reports are used to support the international registration of our successful research compounds. Industrial experience as well as experience in working with radiolabelled compounds (14C) would both be advantages but are not essential. Our laboratories are modern and fully equipped. Diledor is situated in pleasant, rural surroundings about 10 miles outside Zurich. We hope to fill this important position with a scientist who is interested in laboratory work and who would thrive on the inter-disciplinary nature of the position. The successful candidate will supervise 1-2 lab. technicians.

Candidates with Swiss citizenship or who qualify for a Swiss Work Permit "C" are eligible to apply. Please send a detailed CV to the Personnel Officer, Dr. R. MAAG AG, CH-8157 Diledor, Switzerland. (Telephone: 011 41 1 855 11 11).

---

**Pharmaceutical Research**

Opportunities in Drug Metabolism

Smith Kline & French Laboratories, a leader in pharmaceutical research, is expanding its Drug Metabolism Department. We are seeking technically skilled and highly motivated scientists from various backgrounds to participate in our drug discovery and drug development research. We have newly created openings in the following areas:

**Protein/Peptide Chemistry**

Opportunities exist for those with interest and experience in the study of the metabolism, disposition and pharmacokinetics of therapeutic peptides and proteins. The successful candidates will design, conduct and interpret studies and prepare reports and publications of their findings. In addition, the successful applicant will establish a research program which will advance the understanding of peptide/protein metabolism. Positions are available for those with B.S., M.S. or Ph.D. degrees in protein chemistry or related areas. Prior experience in the chemical and physical methods for protein isolation and structure determination is essential. Refer to position L0040.

**Bioanalytical Chemistry**

Several positions are available in the Bioanalytical Methods Development Section. The primary function of these jobs will be to develop analytical methodology HPLC, GC, GCMS, RIA, etc., for the analysis of potential therapeutic agents in biological fluids. The successful candidates will be expected to develop or participate in the development of independent research programs in the area of novel "trace" analysis. Positions are available for those with B.S. M.S. or Ph.D. degrees in analytical chemistry or related areas. Prior experience in the area of bioanalytical methods development and trace analysis is essential. Refer to position L0041.

**Pharmacokinetics**

Challenging positions are open for those with expertise in the areas of clinical pharmacokinetics, preclinical pharmacokinetics, toxicokinetics and in vitro kinetics. The successful applicant will apply pharmacokinetics principles to the discovery and development of potential new therapeutic agents. Duties will include the design, conduct, interpretation and reporting of pharmacokinetic studies. Openings are available for persons with B.S., M.S., Ph.D. or Pharm.D. degrees in pharmaceutical chemistry or related areas. Prior experience in the area of pharmacokinetics is essential. Refer to position L0042.

**Mass Spectrometry**

The Department has recently expanded the Mass Spectrometry Section and is seeking scientists with experience in running a mass spectrometer. The successful candidate will work with senior staff in the structure elucidation of metabolic products of potential new therapeutic agents. Primary duties will include design of studies, generation of mass spectrometric data, interpretation of results, reporting of conclusions and maintenance of equipment. The successful candidates will have B.S. or M.S. degrees in chemistry or related areas with prior experience in running and maintaining a mass spectrometer. Refer to position L0043.

Based in a new, state-of-the-art research facility in suburban Philadelphia near Valley Forge, SK&F provides a stimulating and challenging scientific environment in which to grow and excel. We offer an attractive compensation/benefits and relocation package and support continuing education efforts. For confidential review, please forward your C.V. and names of three references to: Liz McKinney, Associate Employment Administrator, Smith Kline & French Laboratories, Research and Development, P.O. Box 1539, King of Prussia, PA 19406-0539. M/F/H/V.

---

**SK&F**

A SmithKline Beecham Company
NEUROSCIENTIST-RESEARCH FACULTY POSITION opens November 15, 1989. Applications will include: supervising graduate students and postdoctoral fellows. The candidate should have Ph.D. and/or M.D. degrees with at least 2 years of postdoctoral experience in areas of physiology and/or behavior. The candidate is expected to use molecular or cellular approaches to develop a research program that investigates microorganisms, their interactions with the environment, and/or the development of new methodologies. The director of the laboratory is interested in the study of the nervous system, particularly in the development of novel strategies for identifying new therapeutic targets. The successful candidate will have a Ph.D. degree in one of these disciplines or in a related area and will be expected to develop an independent research program. Research projects will be supported entirely by contracts and grants. To supplement research salaries, limited graduate teaching opportunities are available. Submit curriculum vitae and three references to: Dr. J. A. Helpern, Director of NMR Research, Department of Neurology, Henry Ford Hospital, 2799 West Grand Boulevard, Detroit, MI 48202. Telephone: 313-876-2620.

OCEANOGRAPHER. The Oceanographic Center of Nova University intends to fill a faculty position in at least one of the following areas: Experimental physical oceanography, theoretical physical oceanography, fisheries biology. The successful applicant will have the Ph.D. degree in one of these disciplines or in a related area and will be expected to develop an independent research program. Research projects will be supported entirely by contracts and grants. To supplement research salaries, limited graduate teaching opportunities are available. Submit curriculum vitae and three references to: Dr. Julian McCready, Director, Nova University Oceanographic Center, 8000 North Ocean Drive, Dania, FL 33004. An Equal Opportunity/Affirmative Action Employer.

PEDIATRIC CARDIOLOGISTS. The Department of Pediatrics at the University of Michigan is seeking two Board-eligible/certified pediatric cardiologists to fill two-track positions. Send curriculum vitae to: A. Rosenthal, M.D., Director, Pediatric Cardiology, C.S. Mott Children's Hospital, University of Michigan Medical Center, Ann Arbor, MI 48109-0204. The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

Ph.D. in IMMUNOLOGY/VIROLOGY/MOLECULAR BIOLOGY trained by young company in Boston area to work on development of novel products for HIV testing, antibody-based research/diagnostic tests, and mAb-based therapeutic/vaccine. Focus will be on new laboratory instruments. Candidate should have experience with protein/ DNA electrophoresis, western and Southern blotting, and other molecular biology techniques. Ten scientist and staff scientist positions available (start-up 1989-1991) on term/retention contracts. Experience in molecular biology techniques useful. Send curriculum vitae and names of three references to: Susan L. Naylor, Ph.D., Department of Cellular and Structural Biology, University of Texas Health Science Center, 7703 Floyd Curl Drive, San Antonio, TX 78284. Telephone: 512-557-3842 or 512-557-3857. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW IN NEUROSCIENCE position available immediately to join a multidisciplinary neuropharmacology group studying the regulation of central and peripheral peptide neuroendocrine processing and function. Experience in neuropeptide neuroendocrine systems (e.g., solid-phase peptide synthesis and purification, cell culture, RIA/HPLC, peptide mapping by HPLC and brain microdialysis) desired. Salary is negotiable. Position available date 30 December 1989. Send curriculum vitae and names of three references to: Dr. Thomas P. Davis, Department of Chemistry, University of Pennsylvania, College of Medicine, Tel Aviv 85724, An Equal Opportunity/Affirmative Action Title IX Section 504 Employer.

POSTDOCTORAL FELLOWSHIP open to study the evolution and diversity of marine organisms. Application deadline January 4, 1990. Send curriculum vitae and names/telephone numbers of three references to: Dr. R. W. Rees-Jones, Department of Marine Science, University of California, 636 National Institutes of Health, 16th Street, New York, NY 10032. Columbia University takes Affirmative Action to ensure Equal Opportunity.
POSTDOCTORAL FELLOW AND/OR RESEARCH ASSOCIATE
RETROVIRUS RESEARCH LABORATORY
COLORADO STATE UNIVERSITY

A person(s) with experience in research techniques in virology, protein biochemistry, immunology, and/or cellular biology to participate in investigations of the mechanisms of retrovirus infection and disease in model systems is sought. Background in virologic and immunologic assays, nucleic acid, protein detection and purification methods are most relevant. Capacity for independent work and ability to interact productively with colleagues is required. Minimum requirements: M.S. or Ph.D. in biologic science, relevant experience. Salary commensurate with credentials.

Deadline: 1 June 1989
Please send résumé to: Dr. Edward A. Hooven, Professor, Department of Pathology, Colorado State University, Fort Collins, CO 80523.

Colorado State University is an Equal Opportunity/Affirmative Action Employer and complies with all Federal and Colorado State laws, regulations, and executive orders regarding Affirmative Action requirements.

POSTDOCTORAL FELLOWSHIP/RESEARCH ASSOCIATE available immediately to study cellular and molecular biology of regulation of microfilaments, cytoskeletal organization and motility in neutrophils and myeloid cells. Background in cell biology, biochemistry, and/or molecular biology preferred. Appointment in laboratory will be in Department of Cell Biology and Anatomy at the University of Alabama at Birmingham. Send curriculum vitae, names and addresses of three references to: Dr. Thomas H. Howard, University of Alabama at Birmingham, Pediatric Hematology Oncology, The Children’s Hospital of Alabama, 1600 7th Avenue South, Birmingham, AL 35233. The University of Alabama at Birmingham is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS
DEPARTMENT OF CELLULAR AND DEVELOPMENTAL BIOLOGY
ORGANISIC AND EVOLUTIONARY BIOLOGY
HARVARD UNIVERSITY

A limited number of postdoctoral research positions become available from time to time. Some appointments are funded through research grants awarded to faculty members and are ordinarily for 1 year, sometimes renewable, other appointments are possible through postdoctoral fellowships. For a list of faculty members who have postdoctoral positions available, write to the respective department office: Harvard University, 16 Divinity Avenue, Cambridge, MA 02138. (Do not send applications.) Harvard University is an Equal Opportunity Affirmative Action Employer.

POSTDOCTORAL OPPORTUNITIES

Howard Hughes Medical Institute, a leading medical research organization, has postdoctoral positions available to study the structure-function relationships of blood-clotting proteins or cellular regulation of receptor expression.

You will work in a new facility with monoclonal, tissue culture and structural biology core facilities. Experience in molecular or cell biology, or protein or physical chemistry is preferred.

To apply, send curriculum vitae and two recommendations to: Charles T. Eamon, Ph.D., Howard Hughes Medical Institute, c/o Oklahoma Medical Research Foundation, 825 NE 13, Oklahoma City, OK 73104.

Equal Opportunity Employer.

POSTDOCTORAL POSITION

Available for a microbiologist with biochemical background. Candidates should have experience in handling anaerobic microorganisms, in the characterization of lipopolysaccharides and proteins, and in the use of isotopes. Send résumé and two letters of reference to: Professor William W. Yotis, Department of Microbiology, Loyola University Stritch School of Medicine, Maywood, IL 60153. Telephone: 312-531-3397. Loyola University of Chicago is an Equal Opportunity/Affirmative Action Employer.

Biotechnology Research

Cal Bio, a leading biotechnology company engaged in developing human therapeutics and protein drug delivery systems, has positions available in the following research areas:

**Scientist/Sr. Scientist — Biological Testing**
Use a broad pathway background and 3-5 years' relevant experience to test in vivo models for tissue repair, drug delivery systems, cardiopulmonary functions, or metabolic systems. Position includes supervision of 2-3 Research Associates. A PhD is required and industry experience preferred. Code LM-CK.

**Protein Biochemist — Neurobiology**
Join a team of molecular and cell biologists developing novel therapeutics for the treatment of neuropathies. Position requires experience with protein analysis and purification techniques including all types of chromatography as well as biochemical, biological, and immune assays. Experience with polypeptide hormones and their receptors is helpful. Qualified candidate has a PhD in a scientific discipline with or without postdoctoral experience. Previous research experience in neurobiology not required. Code LM-FF.

**Scientist**
Apply your expertise to DNA library construction, oligonucleotide design and screening, and expression strategies for cloned DNA's. Candidate should possess a PhD and 2-4 years' related experience. Code LM-LJ.

**Protein Biochemist**
Conduct research on human therapeutics for Diabetes/Obesity, one of Cal Bio's four focus areas. This position requires protein purification expertise involving analytical HPLC method development. Individual should possess a PhD with 1-2 years' experience, or a BS/MS with 3-5 years' experience. Code LM-RA.

**Postdoctoral**
Two opportunities exist: the first involves research into the molecular biology and biochemistry of growth factors and their role in wound healing, the second requires analysis of the receptors for atrial natriuretic peptides and their synthetic analogs. Code LM-JF.

**Research Associates/Sr. Research Associates**
Several positions exist for researchers in our four focus areas: diabetes/obesity, tissue repair, cardiopulmonary, and drug delivery research. A BS/MS plus 1-3 years' lab experience in one of the following areas is required: Protein Chemistry, Molecular Biology, Biochemistry and Cell Biology. Code LM-RR.

Cal Bio offers a stimulating work environment and a competitive compensation and benefits program. For immediate consideration, please forward your curriculum vitae, indicating job code. Code LM-LJ to: Liza Mingione, California Biotechnology Inc., Human Resources, 2450 Bayshore Parkway, Mountain View, CA 94043. We are an equal opportunity/affirmative action employer.
Skin Biology Associates

The successfull factors surrounding drug-induced will degree. Smith the managerial responsibility related in high motivational having Morphologist Conduct in vivo research with animals and primates to characterize structural derangement in the skin and hair follicles of animal models. Develop assays to quantitatively evaluate stimulation or inhibition of hair growth. Must be skilled in administration of drugs to animals, collection and preparation of skin and hair for examination at the light and electron microscopic levels. Experience in modern morphological techniques such as computerized image analysis, immunohistochemistry and autoradiography is desirable.

Cell Biologist-Identify and characterize molecules that modulate intercellular communication in hair follicles and/or skin. Studies require experience in generating monoclonal antibodies, developing immunocytoassays, or preparing skin specimens for histological examination. Additional knowledge of biochemical techniques (e.g., purification, electrophoretic analyses) is desirable.

We are located in southwestern Michigan, midway between Chicago and Detroit. Upjohn offers personal and career advancement opportunities, a highly competitive salary, comprehensive benefits and relocation assistance. For confidential consideration, contact us outside of Michigan toll-free 1/800/253/8600, ext. 3-6767, (inside Michigan call collect 616/223-6767) to request an employment application be sent. Please refer to advertisement number 23690-HA when calling. An Equal Opportunity Employer M/F.

Our Commitment to Scientific Excellence Continues...

DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Alcohol, Drug Abuse, and Mental Health Administration
National Institute of Mental Health

Extramural Staff Fellowships in Neuroscience

The Neurosciences Research Branch, of the Division of Basic Sciences, an extramural grant program of the NIMH, has immediate staffing opportunities in the areas of Molecular Neurobiology/Immunology and Theoretical Neurosciences. The staff fellows will assist existing program staff in the development of two new grant support programs designed to encourage the application of experimental strategies utilizing either advanced molecular biological/immunological techniques or mathematical and computational techniques toward understanding basic brain function and mental health research problems. Responsibilities include conducting, analyzing and evaluating research and research trends; consulting with grant applicants; conducting workshops; interacting with researchers in various research settings.

Applications must have a Ph.D. degree and up to three years of postdoctoral research experience in a neuroscience-related discipline, with extensive training in either molecular biological theory or technology or mathematical/computational/theoretical neuroscience. Initial appointments will be made for up to two years with yearly extensions to a maximum of seven years. Starting salaries range from $28,850 to $53,460. Relocation expenses may be paid. U.S. citizenship or permanent residency status is required. Fellows are eligible for full Government benefits and leave. Duty station is Rockville, MD. Applications will be accepted until positions are filled.

Interested persons should send a letter of interest and a curriculum vita in confidence to: Ronald Schoenfeld, Ph.D., Acting Chief, Neurosciences Research Branch, Division of Basic Sciences, National Institute of Mental Health, Room 11-105, 5600 Fishers Lane, Rockville, MD 20857. (301) 443-1504.

ADAMHA is an Equal Opportunity Employer

ASSISTANT DIRECTOR

The Princeton Plasma Physics Laboratory, one of the world's leading laboratories engaged in the development of magnetic fusion as an inexhaustible energy source, seeks an Assistant Director who will serve as Executive Officer for the Laboratory's internal and external Advisory Council and be responsible for the Laboratory's interaction with federal and state government and long-range planning activities.

The essential qualifications for this position are experience with FR&R&D laboratory relationships with federal and state legislative bodies and executive agencies, an advanced degree and experience in physics or a closely allied engineering discipline, and experience as a technical manager. Familiarity with the interactions of the academic and industrial sectors with FR&R&D institutions is highly desirable.

The Laboratory offers stimulating and challenging work, a salary fully commensurate with experience and a comprehensive benefit package.

Please forward a detailed resume, names of references, and salary requirements by 31 March 1989 to:

Dr. Harold P. Furth, Director
Princeton Plasma Physics Laboratory
Post Office Box 451
Princeton, New Jersey 08543

An Equal Opportunity/Affirmative Action Employer

Plasma Physics Laboratory
Princeton University
The U.S. Environmental Protection Agency (EPA) is seeking candidates for the position of Director, Human Studies Division, Health Effects Research Laboratory (HERL). This position is located in Research Triangle Park, N.C. and is a permanent full-time position with a salary range of $57,158 to $74,303 per annum commensurate with qualifications. Additional salary incentives are available should a physician be selected for this position.

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 Human Studies Division (HSD) is a multi-disciplinary program organized into two branches: Clinical Research and Epidemiology with a combined EPA staff of 35, with approximately 75 on-site contractor personnel. The Division is a focal point for planning, conducting, coordinating, supporting and evaluating a program of clinical and epidemiological investigations to improve the understanding of human health risks associated with environmental pollution. 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 medical discipline or epidemiology with at least six years of professional experience in any 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 human research program.
5. U.S. citizenship is required.

Forward curriculum vitae and names of three references prior to May 1 (previously April 17) 1989 to: Dr. Lawrence W. Reiter, c/o Terri Burrell, HRMD (MO-29), U.S. Environmental Protection Agency, Research Triangle Park, NC 27711.

---

**GLAXO INSTITUTE FOR MOLECULAR BIOLOGY S.A.**

The Geneva biotechnology research unit of the largest U.K. pharmaceutical group has a vacancy for:

**AN ANIMAL-CELL FERMENTATION SCIENTIST**

We are expanding our activities in the area of animal cell cultivation and are seeking a scientist to lead a cell culture laboratory within our Fermentation group. The successful candidate should have a strong scientific background in the general area of animal cell biology or fermentation and post-doctoral experience in the culture of animal cells in fermenters. In addition the applicant should be able to contribute actively to the development of research projects in one or more of the areas of current interest to the Institute. Current projects include antiviral and antifungal therapeutics, inflammatory diseases and the regulation of cell proliferation and development.

The Institute has a staff of over one hundred, grouped in small teams of specialists from several domains of modern biology. We are part of the Glaxo Group – one of the world’s leading pharmaceutical companies – which has an outstanding reputation for the quality of its research and products.

We offer an excellent salary and benefits package, with opportunities for career development in one of the most attractive parts of Europe.

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.
POSTDOCTORAL PHARMACOLOGIST

XOMA Corporation is a world leader in the development and marketing of therapeutic pharmaceuticals for human use. This highly visible position offers an exciting opportunity for scientists to contribute to the development of innovative drugs to combat the world's most prevalent diseases.

This position provides a unique opportunity for postdoctoral fellows in pharmacology to be involved in the development of innovative drugs to combat diseases such as tuberculosis and cancer. XOMA is a leader in the development of therapeutic monoclonal antibodies and other biopharmaceutical products.

Education and Experience:
- Ph.D. in pharmacology or related field
- Experience in pharmacology, biochemistry, or related field
- Strong background in pharmacology
- Excellent communication and interpersonal skills
- Solid understanding of basic pharmacology
- Familiarity with FDA regulations

Salary:
- Competitive salary

Benefits:
- Health insurance
- Retirement plan
- Generous paid time off

Application Process:
- Applicants should submit a cover letter, curriculum vitae, and the names of three references to: Dr. John E. Holaday, Director of Pharmacology, XOMA Corporation, 4800 South Euclid Avenue, St. Louis, MO 63110. Telephone: 314-362-2299. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS AVAILABLE IMMEDIATELY

Department of Biochemistry, University of California, San Diego

The Department of Biochemistry, University of California, San Diego, is seeking candidates for several postdoctoral positions. The successful candidate will participate in ongoing research projects in the areas of protein structure and function, drug design, and molecular biology.

Position Requirements:
- Ph.D. in biochemistry or related field
- Strong background in biochemistry
- Excellent oral and written communication skills

Salary:
- Competitive salary

Benefits:
- Health insurance
- Retirement plan
- Generous paid time off

Application Process:
- Applicants should submit a cover letter, curriculum vitae, and the names of three references to: Dr. David B. Brown, Department of Biochemistry, University of California, San Diego, La Jolla, CA 92037. Telephone: 619-534-2496. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS AVAILABLE IMMEDIATELY

Department of Biochemistry, University of Maryland

The Department of Biochemistry, University of Maryland, is seeking candidates for several postdoctoral positions. The successful candidate will participate in ongoing research projects in the areas of protein structure and function, drug design, and molecular biology.

Position Requirements:
- Ph.D. in biochemistry or related field
- Strong background in biochemistry
- Excellent oral and written communication skills

Salary:
- Competitive salary

Benefits:
- Health insurance
- Retirement plan
- Generous paid time off

Application Process:
- Applicants should submit a cover letter, curriculum vitae, and the names of three references to: Dr. John E. Holaday, Director of Pharmacology, XOMA Corporation, 4800 South Euclid Avenue, St. Louis, MO 63110. Telephone: 314-362-2299. Affirmative Action/Equal Opportunity Employer.
Pfizer Central Research has several immediate openings for research assistants within its expanding Department of Immunology and Infectious Diseases. You will join multidisciplinary project teams engaged in research towards discovery of novel therapies for a variety of inflammatory, pulmonary and autoimmune diseases.

**Histologist/Electron Microscopist**
You will conduct *in vitro* and *in vivo* experiments utilizing histological and ultrastructural techniques. Ideally, you should have an MS or BS degree in a biological science with experience operating and maintaining a range of laboratory instruments including SEM, TEM and ultramicrotomes. Laboratory skills in one or more of the following areas are also desirable: immunohistochemistry, immuno-electron microscopy, image analysis and cell labeling.

**Biochemist**
Will conduct experiments related to the biochemistry and physiology of human and mammalian white blood cells. You should possess an MS or BS degree in biochemistry, immunology or biology. Laboratory experience in the following areas is desirable: isolation of cells from blood and exudates; measurement of membrane receptors using radioligand binding assays; quantitation, isolation and purification of arachidonic acid pathway metabolites and intracellular proteins. Experience with HPLC and electrophoretic techniques would be particularly useful.

**Immunologist**
Requires an MS in immunology or biochemistry or a BS with extensive laboratory experience. Experience in one or more of the following areas is necessary: cell mediated immunity; regulation of lymphokine production/activity; production, characterization and purification of monoclonal and polyclonal antibodies; *in vivo* models of arthritis and autoimmunity.

**Pulmonary Biologist**
The successful candidate will have a BS or MS degree in physiology or biology and experience with pulmonary pharmacology. Ideally, this experience should include the development of aerosol drug delivery systems and the measurement of the mechanics of respiration.

**Cellular Physiologist**
A BS or MS degree plus several years of relevant research experience in cellular physiology or immunology and cell surface phenotyping are required. Expertise in characterizing ion channels by whole cell patch-clamp recording techniques and/or fluorescence imaging would be especially valuable. Other useful experience would include a working knowledge of basic fluorescence and computers.

**Analytical Biochemist**
You will quantitatively analyze a variety of mediators and investigative compounds in the context of *in vivo* models. Requires at least a BS degree in a relevant area of science and experience with HPLC techniques. Experience with other analytical methods such as RIA and ELISA, as well as a familiarity with computer analysis of data, is also desirable.

Pfizer offers a stimulating scientific research environment with the opportunity to interact with scientists from several disciplines. In addition, Pfizer has a competitive compensation/benefit package along with relocation assistance to this southeastern Connecticut shoreline community. Please send a resume indicating position of interest, a description of your research experience, and names of three references to: Mrs. Lorraine C. Corr, Personnel Associate, Pfizer Central Research, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.
CYTOGENETICIST
A cytogeneticist (PhD) with credentials in clinical cytogenetics is required for a 700+ bed teaching hospital in New York City. A laboratory for clinical material of 600 sq. ft. is available and additional space for research will be remodeled for a candidate with research grant support. The hospital is the major affiliate of SUNY (Downstate) and an appointment will be made at the assistant or associate professor level. The present clinical load is 400 amniocentesis and 50-70 leukemias/year.

Please send resume to:
H. Simpkins, M.D., Ph.D.
Professor of Pathology (SUNY)
Chair, Department of Pathology
The Staten Island Hospital and Richmond Memorial Hospital
Community Health System of Staten Island
“Partners in Quality Care”
475 Seaview Ave, Staten Island, NY 10305

JUNIOR RESEARCH BIOLOGIST
Merck Sharp and Dohme Research Laboratories, a world leader in the development of ethical pharmaceuticals for human and animal health, is currently offering an excellent career opportunity for a biologist to join a team working on avian coccidiosis in the Department of Biochemical Parasitology in Rahway, New Jersey.

The position requires a M.S. degree or equivalent (or B.S. plus two or more years of research experience) in Poultry Science or related field. Experience in avian parasitology or immunology would be useful.

Salary and benefits are excellent. Our location is Rahway, New Jersey, 25 miles from New York City. Interested applicants should submit a resume to Ms. Delores Barefield, Merck Sharp and Dohme Research Laboratories, P.O. Box 2000, WBD-362, Rahway, New Jersey 07065. An equal opportunity employer M/F VH.

Merck & Co., Inc.

UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO
FACULTY POSITION
The Program in Physical Therapy Education announces a 12-month, tenure track position at the Associate/Assistant professor rank. We are seeking an individual with expertise in cardiopulmonary physiology/rehabilitation, exercise physiology, neurophysiology or a closely related area. Applicants need not be physical therapists but must have interest and background in areas related to rehabilitation. Opportunities to teach at the graduate and undergraduate levels as well as perform research in areas of interest and related activities. Research support including start-up monies is negotiable.

San Antonio offers high quality, affordable living in a city which has numerous recreational opportunities and major tourist attractions. All this with no state income tax. Our program is very well resourced and numerous opportunities exist for collaborative research with other departments within the Health Science Center. Salary and benefits package are excellent.

Applications are now being accepted and will continue to be accepted until the position is filled. Start date is negotiable.

Contact:
Pamela A. Stanton, Ed.D.,
Director
Physical Therapy Program
The University of Texas Health Science Center at San Antonio
7705 Floyd Curl Drive
San Antonio, Texas 78284

The University of Texas Health Science Center at San Antonio is an equal opportunity/affirmative action employer.

Cell Biology
We are currently seeking a staff scientist to join our tissue growth and repair group. The ideal candidate will be responsible for initiating and directing research aimed at understanding the roles of growth factors and their receptors in cell differentiation, with particular emphasis on the mechanisms of signal transduction. A PhD in cell and developmental biology, at least 2 years of relevant postdoctoral work and previous experience with growth factors, receptors and in vitro assays required.

We offer a stimulating and dynamic work environment in addition to an excellent salary and comprehensive benefits program.

Interested candidates should forward a resume, in confidence, to: Barbara Covel, Director of Human Resources, Genetics Institute, 87 Cambridge Park Drive, Cambridge, MA 02140.

Genetics Institute

POLYMER/ORGANIC CHEMISTRY
Enzymatics, Inc. uses state-of-the-art applied enzymology in developing a new generation of machine independent medical diagnostics and biosensors. We are looking for motivated problem solvers to join our rapidly growing team.

Research Scientist, Ph.D.: Will have 4+ years postdoctoral experience. Strong background in organic chemistry with experience in polymer or protein chemistry required.

Research Associates, MS/BS: Requires 2+ years of problem solving experience in biochemistry.

Enzymatics, Inc. exists in an innovative and dynamic R&D environment. We offer equity participation, competitive salary and benefits, and unlimited growth potential. Send resume, including salary history and three references to:

Personnel, Enzymatics, Inc.
355 Business Center Drive • Horsham, PA
19044 EOE M/F

TERATOLOGIST/REPRODUCTION TOXICOLOGIST
Life Science Research–Roma Toxicology Centre seeks applications for the position of Study Director from individuals with 2 to 5 years experience in product safety assessment using the Segment I, II and III protocols. Working knowledge of visceral and skeletal examination methods for assessing altered fetal development is desirable. An interest in investigation of alternative methods for indicating developmental and reproductive hazards will be useful.

Ability to effectively communicate in English is essential. Knowledge of Italian is desirable, but instruction will be provided.

The laboratory is located on the coast of Italy 20km south of Rome. We offer a unique opportunity to gain international experience in contract toxicology with a competitive salary.

Please send Curriculum Vitae by express mail to:
Director of Toxicology
Life Science Research–Roma Toxicology Centre
Via Tito Speri, 14
00040 Pomezia (Roma)–ITALIA
Fax no.: 39-6-9125387
Tel. no.: 39-6-9120351
NATIONAL INSTITUTES OF HEALTH
IMMUNOLOGIST/CELL BIOLOGIST

Experience in immunology, cell biology and molecular biology to study the role of human CD8+ B lymphocytes in the normal and autoimmune repertoire and to make human monoclonal antibodies. The candidate should have at least two years postdoctoral experience. The initial appointment will be for two years, with renewals on a yearly basis. Starting salary range, depending on experience, is $30,000 to $50,000 per year. The position is available immediately. Send Curriculum Vitae and names of references to Dr. Lois Salzman, Deputy Director Intramural Research Program, National Institute of Dental Research, National Institutes of Health, 9000 Rockville Pike, Building 30, Room 121, Bethesda, Maryland 20892. NIH is an Equal Opportunity Employer.

GROUP LEADER
Protein Chemistry—Enzymology—

The Henkel Group, a leader in applied chemistry, with worldwide annual sales of $5 billion, seeks a senior scientist to join existing biotechnology efforts. A position of responsibility is available at Henkel's West Coast research facility in Northern California.

The successful candidate will report to the Director and assist in program development. Applicants should have a PhD in Chemistry, Biochemistry, Microbiology or a closely related field and three or more years' experience after postdoctorate in industry or academia. Scientific leadership in protein chemistry and enzymology is essential, as is experience directing PhD scientists. Incumbent will plan, direct and conduct research in the analysis and application of industrial enzymes for Henkel products and processes.

For confidential consideration, send complete curriculum vitae with references and salary requirements to: Personnel Director, HENKEL RESEARCH CORPORATION, 2330 Circadian Way, Santa Rosa, CA 95407. We are an equal opportunity employer.

CHAIRMAN
MEDICAL SCIENCES DIVISION

Nominations and applications are invited for the position of Chairman of the Medical Sciences Division of Oak Ridge Associated Universities. ORAU is a private, not-for-profit consortium of 49 colleges and universities and a management and operating contractor of the U.S. Department of Energy. Its mission is to carry out research and development in medical sciences, science/engineering education, productivity management and training, and energy/environment systems.

The chairman provides scientific and managerial leadership to strengthen, build and conduct Division programs that address critical medical and health issues associated with energy. The Chairman’s responsibilities include providing broad scientific and managerial leadership, developing a strong staff, allocating resources, and representing the Division to federal agencies, universities, and other organizations.

The Division’s interdisciplinary staff of about 125 investigates the medical benefits and costs to the human body from natural and synthetic substances, primarily those from energy and energy-related technologies. It carries out basic preclinical research, develops beneficial applications to human health from science and technology; develops techniques to avoid moderate, or reverse negative health impacts; analyzes the health risks and outcomes from applications of technologies; and provides information systems and management expertise to deal with health-related impacts.

Qualifications for the position include a doctorate in medicine and/or health science; an established record of excellence in research and/or research leadership; the ability to build a strong organization and staff, and to work effectively within and outside ORAU. Excellent writing and presentation skills and leadership qualities reflected in vision, innovation, and organization are required.

Applications should include a letter of interest, a vita, a list of publications, and the names and addresses of at least three references. The Search Committee will begin its review in April 1989 and continue until the position is filled. The appointee will assume the full responsibilities of Chairman in early 1990. A transition period preceding the retirement of the incumbent is planned.

Applications, nominations, and inquiries should be sent to: Jon M. Veigel, President, Oak Ridge Associated Universities, P.O. Box 117, Oak Ridge, TN 37831-0117. An Equal Opportunity Employer.

OAK RIDGE
ASSOCIATED UNIVERSITIES

RESEARCH SAFETY MANAGER

The new Miles Research Center is currently looking for a Research Safety Manager to establish and manage the Center’s Health and Safety program. The selected candidate will have the following responsibilities:

- Develop & implement new state-of-the-art research related safety and health programs
- Assure compliance with NIH guidelines for scientific research
- Assure general health and safety of Miles Research Center employees
- Assure compliance with federal, state and local health & safety requirements

The ideal candidate will have a PhD in Science, Health, or Industrial Hygiene and 10 years of related experience in the establishment and management of health & safety programs. Board certification in Industrial Hygiene is recommended along with excellent written and oral communication skills.

We offer a competitive starting salary and comprehensive benefits that include medical and dental insurance, tuition reimbursement, 13 paid holidays, credit union, 401K savings plan, as well as a premier relocation program. For prompt consideration, please forward your resume and current salary to: Department AMB.

Miles Research Center
A Bayer USA INC. COMPANY
400 Morgan Lane
West Haven, CT 06516
AN EQUAL OPPORTUNITY EMPLOYER M/F/H

Henkel
POSTDOCTORAL RESEARCH ASSOCIATE POSITION

A postdoctoral position is open to study nuclear scaffold enzymes in relation to DNA Transport. Applicants should have a strong background in molecular biology techniques, including cloning, regulation, and expression of recombinant DNA and/or plant tissue culture. Salary commensurate with experience. Excellent benefit package. Equal Employment Opportunity. For further information, contact: Dr. Gary Clawson, 202-994-5057.

THE ROCKEFELLER UNIVERSITY POSTDOCTORAL RESEARCH FELLOWSHIP

One position is available for a postdoctoral researcher trained in molecular and/or biochemical techniques to study vasoactive peptides and related regulatory mechanisms in the cardiovascular system. Salary commensurate with experience. Excellent benefit package. Equal Employment Opportunity. For further information, contact: Dr. G. J. Schroepfer, Jr., Department of Biochemistry, Rockefeller University, P.O. Box 1892, Houston, TX 77251.

RICE UNIVERSITY POSTDOCTORAL RESEARCH POSITION

For studies of regulation of cell growth and differentiation in mammary gland and mammary tumor cells. Salary commensurate with experience. Excellent benefit package. Equal Employment Opportunity. For further information, contact: Dr. P. J. Parlow, Department of Biochemistry, Rice University, 6100 Main Street, Houston, TX 77005.

POSTGRADUATE POSITION IN MICROBIOLOGY to do research in microbial Coal Cleaning Section of the Pittsburgh Energy Technology Center. Project involves isolation and characterization of bacteria that remove sulfur from model compounds and coal. Degree graduate within 3 years and U.S. citizenship or PRA status required. Excellent benefit package. Salary commensurate with experience. Excellent benefit package. Equal Employment Opportunity. For further information, contact: Dr. R. M. Beckstead, Department of Microbiology and Immunology, University of South Carolina, Charleston, SC 29424.

RESEARCH ASSOCIATE (POSTDOCTORAL) available immediately to study the neuronal mechanisms underlying the behavioral effects of hallucinogens, CNS stimulants and related compounds. The applicant should have a Ph.D. (or ABD) in experimental psychology, pharmacology or related biomedical science, knowledge of drug discrimination methods, and an interest in more "molecular" aspects of drug discovery (e.g., neurotransmitter systems, in vivo systems, etc.) in conjunction with this procedure. Expertise in computer programming and interfacing is desirable but not mandatory. Send curriculum vitae and three letters of reference to: James B. Appel, Ph.D., Behavioral Pharmacology Laboratory, Department of Psychology, University of South Carolina, Columbia, SC 29208. The position is on Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH: Biochelatogena-

tion, In Vivo and In Vitro Studies, and Heme Mitochondria Reactions. 1H NMR of multiple pathways and kinetics, active site chemistry. Available 1 February 1989. Send resume and letter of recommendations to: Dr. G. E. Castor, Nematology Department, University of California at Riverside, Riverside, CA 92521.

YALE UNIVERSITY

RESEARCH POSITION

The Universities Space Research Association has an ongoing need for research scientists and assistants to investigate processes or products which are limited or constrained by our current understanding of the Earth and its environment or by current technologies for the acquisition of knowledge. Salary commensurate with experience. Equal Employment Opportunity. For further information, contact: Dr. G. J. Schroepfer, Jr., Department of Biochemistry, Rice University, 6100 Main Street, Houston, TX 77005.

RESEARCH ASSOCIATE

Salary commensurate with qualifications and experience. Applications, with curriculum vitae and the name of three references, should be sent to: Dr. G. J. Schroepfer, Jr., Department of Biochemistry, Rice University, 6100 Main Street, Houston, TX 77005.

RESEARCH ASSOCIATE


RESEARCH ASSOCIATE

Salary commensurate with qualifications and experience. Applications, with curriculum vitae and the name of three references, should be sent to: Dr. G. J. Schroepfer, Jr., Department of Biochemistry, Rice University, 6100 Main Street, Houston, TX 77005.

RESEARCH ASSOCIATE

Salary commensurate with qualifications and experience. Applications, with curriculum vitae and the name of three references, should be sent to: Dr. G. J. Schroepfer, Jr., Department of Biochemistry, Rice University, 6100 Main Street, Houston, TX 77005.
CIBA-GEIGY Animal Health is seeking qualified individuals to fill open positions within its BIOVET Unit, a young and dynamic R & D group established in 1985 to pursue product opportunities in animal health care based on biotechnology-derived materials. Specifically, we look for a

**R & D Scientist**

with a DVM degree plus a minimum of 2–3 years of post-graduate training (such as residency, industrial experience or a PhD) in the areas of Internal Clinical Medicine and/or Pathology. We also look for a

**Postdoctoral Fellow**

with a DVM degree plus further training in Immunology or Microbiology.

Candidates for both positions must have a thorough knowledge of the livestock industry in North America or Europe and a minimum of one year experience in general veterinary practice. Expertise in data management and statistics is desirable.

The prospective members of the team will be working in our R & D center situated in the French-speaking area of Switzerland. They will have the excellent opportunity to work in a highly interactive environment and to contribute actively to the solution of practical problems in animal health care.

Please send your application with documented history under code “Science 239” to Mr. H. Schmid, CIBA-GEIGY Ltd., Personnel Department, P.O. Box, CH-4002 Basle.
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, immunosays, 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

DEPARTMENT OF HEALTH AND HUMAN SERVICES
Alcohol, Drug Abuse, and Mental Health Administration
U.S. Public Health Service
National Institute of Mental Health
Deputy Division Director

The Division of Basic Sciences has an immediate opening for a supervisory health scientist administrator to serve as Deputy Director of the Division. The Division supports a broad range of research in neurosciences and behavioral sciences through grants and contracts to universities, hospitals, and other research organizations. The Division has an annual budget of approximately $70 million, which supports research, research development, and research training activities, and has a staff of about 40. The Deputy Director assists the Director in the scientific and administrative management of the Division, and in the evaluation and development of basic research programs related to mental illness. Therefore, a broad knowledge of the scientific fields represented by Division programs is essential.

Applicants should possess an M.D. or a Ph.D. degree, or equivalent training, in a discipline related to neuroscience or behavioral science, and should have extensive experience in direct research as well as research administration. The position will be filled through the Civil Service or Commissioned Corps of the U.S. Public Health Service. The grade of the position is GM-15, with a salary range from $57,156 to $75,500 per annum. Benefits include a retirement plan, health and life insurance, sick and annual leave. Relocation expenses may be paid. Duty station is Rockville, MD. U.S. citizenship is required.

Any applicant not currently employed in the Federal Government will be required to obtain an eligible notice of appointment.

Submit applications for Federal Employment (SF-171) and curriculum vita to Ms. Benesch, Division of Personnel Management, Room 1SC-12, 5600 Fishers Lane, Rockville, MD 20857, (301)443-5407. Applications must be postmarked no later than May 12, 1989.

ADAMHA is an Equal Opportunity Employer

Molecular Genetics

Smith Kline & French Laboratories, a leader in pharmaceutical research, is seeking additional Postdoctoral Scientists to expand its current research programs. These are excellent opportunities for innovative interdisciplinary research in our new and superbly equipped Research and Development Center in suburban Philadelphia near Valley Forge, PA.

The Department of Molecular Genetics is seeking outstanding Ph.D. scientists to pursue research in the following areas:

- Molecular genetics of yeast (S. cerevisiae and C. albicans).
- Molecular biology of Interleukin I secretion and/or receptor recognition.

The successful candidates must have:

- Ph.D. in Biological Science or related area.
- Experience in recombinant DNA techniques.
- Experience in Molecular Biology and protein purification is desirable.

For confidential review, qualified candidates should forward your C.V. and names of 3 references to: Barbara J. Schwartz, S0065, Employment Administrator, Smith Kline & French Laboratories, Research & Development, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.

Immunologist

Pfizer Central Research has an opening for an immunologist interested in participating in the discovery of new immunostimulatory agents. You will join a multidisciplinary team of scientists working in state-of-the-art research facilities. Our current interests encompass the pharmacologic manipulation of T-cells, macrophages, and/or hematopoietic stem cells in patients at increased risk of infection.

You must have a PhD and postdoctoral training in immunobiology or immunoochemistry with an emphasis on mechanisms of cellular activation and a documented record of accomplishment. Areas of research interest could include receptor-ligand interactions, second messenger systems or maturational processes. Previous industrial research experience is welcome but not essential.

This position offers excellent opportunities for professional recognition and development. We offer an excellent salary, benefit and relocation package plus an attractive southeastern Connecticut shore location. Qualified applicants should submit their resume, including the names, addresses and phone numbers of three professional references to: J.K. Larson, Ph.D., Assistant Director, Employee Resources, Pfizer Central Research, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.
Scientists

If actively impacting on breakthroughs in biotechnology is what you have in mind, come to Schering-Plough.

We have immediate challenges within our Biotechnology Group in Union, New Jersey for innovative scientific thinkers who would like to participate in one of today's most exciting and significant areas of health care, with opportunities to impact on the areas of cell culture development and rDNA technology.

This is an outstanding opportunity to enhance your own considerable expertise while supporting scale-up of recombinant protein expression in mammalian cells. Your involvement will include maintaining and characterizing cell cultures, as well as performing various cell biology/physiology studies. You should have a BS or MS in Biochemistry, Cell Biology or a closely related field providing in-depth understanding of cell biology. Background must include 1-7 years hands-on experience, preferably in an industrial setting, using advanced techniques in molecular biology and analytical procedures for detecting proteins.

As part of a $3-billion pacesetter in the health care industry, you'll receive the support to pursue your best ideas, as well as an attractive salary and full benefits package. For immediate, confidential consideration, forward your resume and salary history to: Mr. Michael Urdanick, Schering-Plough Corporation, 1011 Morris Avenue, Union, NJ 07083. We are an equal opportunity employer.

What you have in mind, we put in action.

Molecular Biologist/Biochemist
Ph.D. Level

Pharmaceutical Research

The Parke-Davis Pharmaceutical Research Division of Warner-Lambert has an excellent career opportunity for a creative and energetic Scientist to join our Biochemistry Section as Group Leader in Molecular Biology. The successful candidate will lead a growing group of Ph.D. and assistant scientists in a highly interactive environment, providing enabling technology for various drug discovery efforts. Our labs, recently equipped for state-of-the-art DNA synthesis and sequencing, peptide synthesis, and amino acid analysis, provide an exciting environment for basic and applied research which will be complemented by interaction with collaborators in leading academic laboratories and biotechnology companies.

Qualifications should include:
- Ph.D. in Molecular Biology/Biochemistry
- At least 4 years' postdoctoral experience in modern molecular biology
- Experience in cardiovascular pharmacology, especially lipoproteins and atherosclerosis, preferred
- Experience in protein separation and purification desired
- Effective oral, written and interpersonal skills

Responsibilities will be:
- Supervision of studies applying all aspects of modern molecular biology technologies to drug discovery
- Isolation and purification of therapeutically relevant proteins
- Interact with other biochemists, biologists, medicinal chemists and pharmacologists involved in ongoing drug discovery efforts
- Liaison with senior molecular biologists involved in drug discovery at collaborating leading biotechnology laboratories

We offer excellent compensation and benefits at our modern facilities adjacent to the University of Michigan campus. Qualified applicants should send curriculum vitae in confidence to: Ms. S. Hultquist, Human Resources, Parke-Davis Pharmaceutical Research Division, Warner-Lambert Company, 2800 Plymouth Road, Ann Arbor, MI 48105.

PARKE-DAVIS
DIVISION OF WARNER-LAMBERT COMPANY

"Equal Opportunity in Action"
POSITIONS OPEN
SABBATICAL REPLACEMENT. Organic area. Assistant professor for 1 year with possible extension to 2 years beginning Fall 1990. Ph.D. required. Denison University is a high-quality liberal arts college located in central Ohio. This ACS-certified department has excellent facilities and research in all areas of modern instrumentation. Primary responsibilities will be in the organic area but participation in the general chemistry curriculum will also be expected. Some experience in the biochemistry area would be helpful. A strong commitment to undergraduate teaching is required. Interested applicants should send letter of application, resume, transcripts, and three letters of recommendation by 31 March 1989 to: Dr. Richard R. Doyle, Chairman, Department of Chemistry, Denison University, Granville, OH 43023.

Women and minorities are encouraged to apply.

A full-time STAFF SCIENTIST position is available to study molecular biology of signal transduction in plants. Candidates must have a Ph.D. in plant science and at least five publications in peer-reviewed professional journals. Additional experience in signal transduction in plants. Postdoctoral experience in calcium research as it relates to signal-induced processes as well as experience in recombinant DNA techniques are required. Salary range: $30,000 to $36,000 per year. Submit curriculum vitae, a list of publications, and three letters of recommendation by 20 April 1989 to: Dr. Y. Poovachait, Department of Horticulture and Landscape Architecture, Washington State University, Pullman, WA 99164-6414.

SUPERVISORY NEUROSCIENTIST

To serve as Research Team Leader, Neurosciences, Brandeis University, Waltham, Massachusetts. Responsibilities include supervising, managing, and conducting research on either (i) the molecular mechanisms of action of neurotoxic threat agents or (ii) the effects of neurotoxins on the integration of neural systems. Functional expertise should be focused on mammalian toxins (e.g., saxitoxin, brevetoxin, etc.), and the development of concepts of prophylaxis and therapy. Qualified applicants must have established expertise in electrophysiology, membrane biophysics, neuropharmacology, integrative neural systems, experimental psychology and/or neuroanatomy as indicated by peer-reviewed publications. Demonstrated ability in multidisciplinary research program planning and administration is highly desirable.

Applicants should have an earned Ph.D. in one of the following areas: behavioral neurosciences, animal sciences, physiology, pharmacology, psychology, or a closely related discipline. Salary range is $46,592 to $63,172 per annum. U.S. citizenship is required and the applicant must hold a valid U.S. passport. A security clearance will be required. Send application, resume, and three letters of recommendation by 17 April 1989 to: Commanding Officer, CHEMICAL DEFENSE ARMY, Fort Detrick, National Office, 2201 110th Street, P.O. Box 168, Iowa City, IA 52243. Please list areas of special interest—e.g., neurotoxicology, neuropharmacology, experimental psychology, or pharmacology. Submit curriculum vitae, publications, manuscripts, grant applications; statement of research interests, goals and activities; teaching philosophy and experience; and a sample of the candidate should be able to teach—and three letters of recommendation should be sent by 31 March 1989 to: Dr. James S. Ashe, Snow Entomological Museum, Snow Hall, University of Kansas, Lawrence, KS 66045; telephone: 913-864-3065. Equal Opportunity Employer/Affirmative Action.

University of California, Los Angeles (UCLA) Urology Division seeks Board-certified UROLOGIST with expertise in renal transplantation for faculty position. Requirements: proven ability to organize clinical training; ability to collaborate in an multidisciplinary research effort; experience in reconstructive and pediatric urology; excellent surgical skills. Applicants should contact: The UCLA Urology Division, 10833 Le Conte, 310-825-7138. UCLA is an Equal Opportunity/Affirmative Action Employer.

TOXICOLOGIST (436488) $469.20 to $564.40 per week. The Department of Agriculture, Food and Rural Resources is recruiting qualified candidates to fill an immediate vacancy in the Board of Pesticides Control in Augusta, Maine. This is professional work in the identification of health hazards due to pesticides in the air, water and land. Minimum qualifications are an 8-year combination of education, training and experience with primary emphasis in toxicology. An example of an acceptable combination of training and experience would be a B.S. degree in toxicology, environmental biology, chemistry or directly related and 4 years of experience in toxicology, pesticides, or directly related field. Preference will be given to candidates with experience in performing and/or interpreting chemical analyses of pesticides. Applications and Supplemental Qualifications Questionnaires are available from the Bureau of Human Resources, State Office Building, 4th Floor, Room 214, Augusta, ME 04333 no later than 5:00 p.m. on 21 April 1989. An Equal Opportunity/Affirmative Action Employer M/F/H.

PROGRAM

TOXICOLOGIST (436488) $469.20 to $564.40 per week. The Department of Agriculture, Food and Rural Resources is recruiting qualified candidates to fill an immediate vacancy in the Board of Pesticides Control in Augusta, Maine. This is professional work in the identification of health hazards due to pesticides in the air, water and land. Minimum qualifications are an 8-year combination of education, training and experience with primary emphasis in toxicology. An example of an acceptable combination of training and experience would be a B.S. degree in toxicology, environmental biology, chemistry or directly related and 4 years of experience in toxicology, pesticides, or directly related field. Preference will be given to candidates with experience in performing and/or interpreting chemical analyses of pesticides. Applications and Supplemental Qualifications Questionnaires are available from the Bureau of Human Resources, State Office Building, 4th Floor, Room 214, Augusta, ME 04333 no later than 5:00 p.m. on 21 April 1989. An Equal Opportunity/Affirmative Action Employer M/F/H.

PROGRAM

CAREER CHANGE OPPORTUNITY

This unique program offers the candidate with an earned doctorate in the sciences the opportunity to earn a second graduate degree in two to three calendar years. Employment opportunities exist in private practice, industry, education and research.

Applications received by March 31, 1989 will be assured of being considered.

An Equal Opportunity and Affirmative Action Employer.

POSITIONS OPEN

SYSTEMATIC ENTOMOLOGIST

Assistant Professor/Assistant Curator, Departments of Entomology, Systematics and Ecology, and Snow Entomological Museum. Tenure-track, 9-month appointment, expected starting date 27 August 1989. Duties include: (i) productive research in systematic entomology; (ii) enhance collections and programs of Snow Entomological Museum; (iii) teaching graduate and undergraduate courses in entomology or biological science; (iv) promote and direct graduate student research. Required qualifications: (i) Ph.D. in insect systematics or closely related field; (ii) evidence of ability to: communicate ideas effectively; carry out a vigorous research and field program; (iii) familiarity with appropriate curatorial procedures; (iv) commitment to excellence in research, graduate training and teaching. Applications, including curriculum vitae, publications, manuscripts, grant applications; statement of research interests, goals and activities; teaching philosophy and experience, with the candidate should be able to teach—and three letters of recommendation should be sent by 31 March 1989 to: Dr. James S. Ashe, Snow Entomological Museum, Snow Hall, University of Kansas, Lawrence, KS 66045; telephone: 913-864-3065. Equal Opportunity Employer/Affirmative Action.

TOXICOLOGIST (436488) $469.20 to $564.40 per week. The Department of Agriculture, Food and Rural Resources is recruiting qualified candidates to fill an immediate vacancy in the Board of Pesticides Control in Augusta, Maine. This is professional work in the identification of health hazards due to pesticides in the air, water and land. Minimum qualifications are an 8-year combination of education, training and experience with primary emphasis in toxicology. An example of an acceptable combination of training and experience would be a B.S. degree in toxicology, environmental biology, chemistry or directly related and 4 years of experience in toxicology, pesticides, or directly related field. Preference will be given to candidates with experience in performing and/or interpreting chemical analyses of pesticides. Applications and Supplemental Qualifications Questionnaires are available from the Bureau of Human Resources, State Office Building, 4th Floor, Room 214, Augusta, ME 04333 no later than 5:00 p.m. on 21 April 1989. An Equal Opportunity/Affirmative Action Employer M/F/H.

PROGRAM

CAREER CHANGE OPPORTUNITY

This unique program offers the candidate with an earned doctorate in the sciences the opportunity to earn a second graduate degree in two to three calendar years. Employment opportunities exist in private practice, industry, education and research.

Applications received by March 31, 1989 will be assured of being considered.

An Equal Opportunity and Affirmative Action Employer.
Scientists

The research center of the largest pharmaceutical company in FRANCE is strengthening and diversifying its capabilities:

MEDICAL CHEMISTS

organic synthesis:
- heterocyclic
- lipid and peptide analogs

PHARMACOLOGISTS

- inflammation,
- pulmonary, diabetology,
- rheumatology,
- cardio-vascular diseases

You are scientists dedicated to the invention of new medicines with a postgraduate degree and demonstrated achievement in applied research.

Some positions involve direction of a group while others offer professional development to entry level research scientists.

Our research center is located in the attractive western outskirts of Paris.

Adress inquiries, with a photograph to PUBLIVAL/2020 27, Route des Gardes - 92190 MEUDON (FRANCE)

Pharmacologist/Neuroscientist

The Department of Pharmacology of Smith Kline & French Laboratories, located in suburban Philadelphia, Pennsylvania, is seeking outstanding scientists to expand its current research programs in cerebrovascular pharmacology and stroke. The individuals will be involved in a multidisciplinary research effort focused on mechanistic studies of brain ischemia and its pathogenesis as directed toward the discovery of novel therapeutic strategies for treatment of stroke.

Successful candidates will have:
- a Ph.D. in Pharmacology, Physiology, Biophysical or Neuroscience with at least 3 years postdoctoral experience in cardiovascular/ cerebrovascular related research
- experience in neurochemical methods, including neurotransmitter assays (RIA, HPLC), is desired. Experience in culture of neuronal/glial cells is most advantageous
- a strong publication record
- good oral and written communication skills
- demonstrated ability to interact with a multidisciplinary research team

We offer excellent compensation and benefits as well as an attractive relocation policy. For confidential consideration, send your C.V. and names of three references to Barbara J. Schwartz, 50092, Employment Administrator, Smith Kline & French Laboratories, Research and Development Division, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.
DOCTORAL PROGRAM IN MOLECULAR, CELLULAR, AND SYSTEMS PHYSIOLOGY. Our graduate program offers coursework and research training leading to the Ph.D. in physiology. The Department is well-known for its research activities in a number of areas, including molecular and cardiovascular physiology. Investigators in the Department employ physiological, biochemical, biophysical, and molecular biological techniques to elucidate the function of biological systems from the level of organ systems to the level of individual molecular objects. Financial support is available to qualified applicants with appropriate undergraduate training. For further information, contact: Dr. Howard Kutchai, Box 449, University of Virginia Health Sciences Center, Charlottesville, VA 22908 or telephone home 804-924-2195. We are an Equal Opportunity/Affirmative Action Employer.

GRADUATE FELLOWSHIPS IN BIOCHEMISTRY, ANATOMY OR PHYSIOLOGY are available for research studies in the Regulatory Peptide Center of the Department of Biomedical Sciences, Creighton University, Omaha, NE 68178, starting in the fall of 1989. The applicant should state the discipline of interest when requesting further information from the Department Chairman. C.U. is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS IN CARIO- DIOLOGY and POSTDOC in 63rd L 1985 for advanced studies in cardiovascular physiology, pharmacology, and pathology at the University of Virginia. A strong multidisciplinary program with eleven investigators provides a broad spectrum of experimental techniques and conceptual models ranging from studies on control of ANF in the intact animal to the molecular biology of the renin-angiotensin system. Applicants should address: Dr. Brian R. Duling, Department of Physiology, Health Sciences Center, University of Virginia, Charlottesville, VA 22908. We are an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH TRAINING FELLOWSHIPS.

Fellowships are available to residents of North America with Ph.D., M.D., or comparable degree and less than a year of postdoctoral laboratory experience by the application deadline for beginning training in basic biomedical research. The 3-year award consists of a stipend of $25,000 for the first year, with increments of $1,000 for each of the next 2 years, $1,000 per annum research allowance; travel to fellowship location; annual meeting. Application deadline 15 August 1989; fellowships activate following July. For application forms, write or telephone: The Helen Hay Whitney Foundation, 50 East 63rd Street, New York, NY 10021; telephone: 212-751-8228.

RESEARCH DEVELOPMENT AWARDS AT THE ZOOLOGICAL PARK.

The National Zoological Park (NZP) is offering Research Fellowships for scientists to complete a major piece of work in their specialty, and to gain experience in research opportunities specific to zoological parks particularly in the areas of evolutionary biology, animal behavior, physiological zoology, ecology, sociobiology, reproductive physiology, conservation biology, and veterinary sciences. Applicants with a distinguished record of research contributions and those whose interests complement the NZP’s current professional research staff are preferred.

Each award is for a maximum of 3 years; stipends to be commensurate with professional level and experience. Applicants must be at least 3 years postdoctoral. Timing and duration of the Fellowships are flexible, but the appointment must be activated within a year of the award and may not exceed a total of 36 months in duration (awards may be divided into several intervals, not less than 6 months each). Field research is appropriate; however, Fellows are to be primarily based at the NZP to maximize interaction and collaborations with NZP staff. Individuals who have received support from or through the NZP for a significant period during the preceding 5 years are ineligible to apply.

For information contact: Dr. Devra G. Kleinman, Assistant Director for Research, National Zoological Park, Washington, DC 20008. Application deadline is 1 July 1989.

FELLOWSHIPS

WASHINGTON UNIVERSITY CENTER FOR CELLULAR AND MOLECULAR NEUROBIOLOGY

The Washington University Center for Cellular and Molecular Neurobiology is pleased to announce the availability of a limited number of FELLOWSHIPS for advanced postdoctoral work in neurobiology. The object of these special awards is to enable outstanding young scientists to perform collaborative research in one or more laboratories associated with the Center. Fellowships will be paid at an annual salary basis of $30,000 plus. A list of faculty associated with the Center and their current research interests is available on request. Once a research sponsor is identified a formal application will be reviewed. Requests should be addressed to:

Center for Cellular and Molecular Neurobiology
Department of Anatomy and Neurobiology
Washington University School of Medicine
660 South Euclid Avenue
St. Louis, MO 63110
An Equal Opportunity/Affirmative Action Employer.

CONFERENCE

ANNOUNCING AN NIH CONFERENCE Modeling in Biomedical Research: An Assessment of Current and Potential Approaches to Cardiovascular/Pulmonary Functions and Diabetes

To be held 1 to 3 May 1989, in Masur Auditorium, The Warren Grant Magnuson Clinical Center, National Institutes of Health, Bethesda, Maryland. Sponsored by the Division of Research Resources, the Division of Research Services, and the Office of Medical Applications of Research of NIH. Scheduled presenters on 1 May include: J. I. Hoffman, M. Gimbrone and F. Dewey, N. Staub, S. Factor and R. S. Chadwick, C. Penski, S. Wickline, R. Ruffolo, and K. Brown and R. Robertson. Those on 2 May include: J. Roth, G. Grodsky, O. M. Rosen, D. Greene, A. Rossini, P. Lacy, R. Bergman, and J. Fain. A panel of scientists chaired by Dr. Gordon H. Sato, Director of W. M. Keck Cell Science Center, will question the presenters, prepare a summary statement of the material presented, and evaluate the strengths and limitations of the experimental models. On 3 May 1989, the panel will present its draft statement and invite comments from the audience.

For further information or to obtain further details, contact: Susan Wallace, Prospect Associates, Suite 500, 1801 Rockville Pike, Rockville, MD 20852; telephone: 301-468-6555.

SYMPOSIUM

60TH ANNIVERSARY SYMPOSIUM OF THE JACKSON LABORATORY IN HONOR OF DR. ELIZABETH S. RUSSELL, GERM CELL GENETICS, HISTOCOMPLEMENTATION AND ERTHYROPOIESIS

14 to 16 June 1989

Speakers include:

Jane Barker Ed Geissler
Alan Bernstein Mary Ann Handel
Murray Brillant David Harrison
John Chalmers Nancy Jenkins
Neal Copeland Harvey Lodish
Eva Eicher Peter Rigby
John Edgar B. L. Bell
Eugene Goldswasser Oliver Smithies

And others

Registration forms may be obtained from:

Ruth Mealey, Symposium Coordinator
The Jackson Laboratory
Bar Harbor, ME 04609

CALL FOR PROPOSALS

U.S. Environmental Protection Agency: HHAG/ OHEA and HERL/OEH invite PROPOSALS FOR COOPERATIVE AGREEMENTS, biologically based dose-response modeling for developmental toxicity. Project is part of Office of Research and Development's effort to develop sound, approved health risk assessment procedures. Proposals should attempt to incorporate basic mechanistic/site of action information and pertinent information on processes that influence chemical action. Information on this process available in a report on dose-response models and their implications for risk assessment, which may be obtained by contacting: HHAG/OHEA, Scientific Review Division, 401 M Street, S.W. (R.S. 689), Washington, D.C. 20001; telephone: 202-260-7331. Additional information may be obtained from: Dr. Carol A. Kimmel, U.S. Environmental Protection Agency, 401 M Street, S.W. (R.S. 689), Washington, D.C. 20001. Scientific Review Division. Applicants (five to ten pages) to outline approach, provide cost estimates, staff qualifications/capabilities of organization(s) involved. Applications for preproposals, selected applicants will be asked to submit final proposals. EPA anticipates making one or two awards for project periods of 3 to 5 years, $160,000 total per year. EPA will consider submission of preproposals to: Dr. Carol A. Kimmel, U.S. Environmental Protection Agency, 401 M Street, S.W. (R.S. 689), Washington, D.C. 20001. Telephone: 202-260-7331. More information on research goals and scope available from Dr. Kimmel or Dr. Kavlock 919-541-2326. This solicitation is subject to Parts 30 and 40 of EPA Grant Regulations, therefore profit-making organizations are prohibited from applying. EPA reserves the right not to make any awards from this solicitation.

MARKETPLACE

Custom DNA Purified and Delivered in 48 hours

$10.00 a base for the first 15 bases, $7.50 for each additional base. No additional charges.

Research Genetics

1-800-533-4363

Circle No. 159 on Readers’ Service Card

NEED DNA FAST?

Custom Sequencing Primers in 24 hours Service

-Reduction in labor costs
- High Quality - No false negatives
- HPLC or Gel purification
- High Quality-Low Prices
- See us at FASEB in New Orleans, Booth 221

1-800-247-5736

FAX 915-694-2387

The Midwest Certified Reagent Co.
3131 W. Cuthbert, Midland, TX 79701

Circle No. 199 on Readers’ Service Card

DNA & PROTEIN

Low Cost — High Quality

Committed to quality, service, and affordability.
Custom Oligonucleotides — $4.00/base
Protein Sequencing — $15.00/cycle
Amino Acid Analysis — $75.00
Peptide Synthesis — available soon

PENNSYLVANIA

Protein and DNA Chemistry Facility - Bioprocessing and Analytical Center
519 Wartik Laboratory
The Pennsylvania State University
University Park, PA 16802
(814) 863-3650
Solubility: MOLECUSOL™ brand cyclodextrins from Pharmatec are chemically modified cyclodextrins which form reversible "inclusion complexes" with a variety of chemical and biological molecules, including proteins. Aqueous solutions of MOLECUSOL cyclodextrins produce dramatic increases in solubility without resorting to pH adjustments or organic solvents. Compounds solubilized in MOLECUSOL cyclodextrins are rapidly released upon dilution, either in vitro or in vivo. Stability: MOLECUSOL cyclodextrins isolate molecules in thermodynamically stable "shells", providing protection from hydrolysis, oxidation, aggregation/adsorption and other undesirable environmental effects. Reproducibility: MOLECUSOL cyclodextrins offer control and convenience in the preparation of aqueous solutions for research. Concentrations of the active agent can be precisely controlled and measured. Commercial Development: Pharmatec is actively promoting MOLECUSOL cyclodextrins for non-therapeutic applications, especially in vitro diagnostics. Additionally, because of its biological safety, Pharmatec has established a Drug Master File for MOLECUSOL HPB to encourage its use in the development of therapeutic substances for human and veterinary use.

To order or for more information, call or write:

PHARMATEC, INC.
Post Office Box 730
County Road 2054
Alachua, FL 32615
904/462-1210
800/526-8222 (outside Florida)
TELEX: 269332 PHTC UR
FAX: 904/462-5401

MOLECUSOL HPB is available as powder or 43% (w/v) solution.

Molecusol™ For research & investigational use only
We may be a small company, but when it came to expanding our order and inventory system, we thought big.

So now, most Pierce orders (97%, in fact) are shipped to you complete. Whenever you place a Pierce order, large or small, you'll receive it fast, and you'll receive it complete. Plus, now you can call us any weekday from 7 am to 7 pm Central Time, to place your orders.

Think Big. Think Pierce for Chromatography, Sample Handling, Biotechnology and Immunochemistry products. Call Toll Free 1-800-8-PIERC for your FREE 400-page Handbook and General Catalog.

You're not alone.

Pierce
800-8-PIERC
PO. Box 117 / Rockford, IL U.S.A. 61105
Tel: 800-8-PIERC or 815/968-0747
Telefax: 815/968-7316 / TWX: 910/631-3419
Circle No. 197 on Readers' Service Card