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Advanced Postdoctoral or Junior Faculty positions for studies of the cell and molecular biology of estrogen and progesterone receptors in breast cancer. Experience with protein immunohistochemistry, site-directed mutagenesis and gene transfer, and/or structural analysis of mRNAs desirable. Send curriculum vitae and references to: Dr. K. B. Horwitz, Department of Medicine-B151, University of Colorado HSC-4200 East Ninth Avenue, Denver, CO 80262. An Equal Opportunity/Affirmative Action Employer.

Joint appointment Department of Ophthalmology and Visual Science and Department of Physiology: Full-time academic appointment. Position entails teaching, research, and administrative duties. Send curriculum vitae and requests for more details to: Dr. Donald B. Doeming, Chairman, Department of Ophthalmology and Visual Science, Yale University School of Medicine, P.O. Box 3333, New Haven, CT 06510-8061. Affirmative Action/Equal Opportunity Employer.

**ASSISTANT PROFESSOR—PHYSIOLOGY AND PHARMACOLOGY.** Tenure-track position available. Candidates should have Ph.D. and/or M.D., with qualifications and interest to teach clinical and graduate students, and conduct research primarily in muscle/nervous system physiology (and pharmacology). Excellent research record (applicants should submit curriculum vitae, and names, addresses, and telephone numbers of three references to: Donald B. Doeming, Chairman, Department of Physiology and Pharmacology, School of Dentistry, Loyola University Medical Center, Maywood, IL 60153. Loyola University of Chicago is an Equal Opportunity/Affirmative Action Employer.

**ASSISTANT PROFESSOR—PSYCHIATRY.** University of Minnesota’s Department of Psychiatry seeks a psychiatrist to fill a probationary, tenure-track position as academic assistant professor. The position entails commitment to research and training. The successful applicant will share with other faculty members responsibility for a treatment team involved in the care of psychiatry, especially substance abuse disorder, and cross-cultural psychiatric care. This team, in addition to treating patients, has the responsibility of training residents, medical students, and psychology interns. Applicants should be Board-eligible, have completed psychiatric residency, and demonstrate involvement in quality psychiatric research and/or teaching experience. Send curriculum vitae to: Joseph Westermeyer, M.D., UMHC Box 393, University of Minnesota Hospitals, Minneapolis, MN 55455. The University of Minnesota is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

**POSITIONS OPEN**

The Department of Biochemistry, Duke University Medical Center invites applications for the position of ASSISTANT PROFESSOR (tenure-track). The person will be expected to establish a strong independent research program in one of the following areas: biochemistry, structural biology, immunology, and molecular biology. All applicants are welcome, although preference will be given to those with experience in physical biochemistry, and structural biology. For information, write to: Dr. John D. Trelease, Duke University Medical Center, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer. The closing date for receipt of applications is 15 May 1989.

East Tennessee State University—Department of Biochemistry, Quillen-Dishner College of Medicine, has an immediate opening for a term-appointed ASSISTANT PROFESSOR, non-tenure-track. Applicants should be molecular immunologists, with 3 years of postdoctoral training in research concerning interleukin synthesis, including cloning and expression of the interleukin-2 receptor. Send curriculum vitae and references to: Dr. E. A. Rabinowitz, Department of Biochemistry, Box 19390A, East Tennessee State University, Johnson City, TN 37614. This is an Equal Employment Opportunity and Affirmative Action Employer and employs only U.S. citizens and aliens authorized to work in the United States.

**ASSISTANT RESEARCH PROFESSOR OF BIOCHEMISTRY.** The University of Kentucky is seeking an assistant research professor in the area of calcium regulation and calcium pumping ATPases. A Ph.D. in biochemistry is required with three or more years of postdoctoral experience. Research interests are in cell biology and calcium regulation and flux mechanisms. Send resume and the names and addresses of three references to: Dr. G. S. Shiu, Chairman, Department of Physiology, University of Kentucky, Lexington, KY 40536-0084. An Equal Opportunity/Affirmative Action Employer.

The Department of Biology at Morehouse College invites applications for a tenure-track position at the ASSISTANT/ASSOCIATE PROFESSOR level in biochemistry to begin in September 1989. Applicants must hold a Ph.D. degree in biochemistry and be prepared to teach a graduate research-oriented course in biochemistry and a junior-level lecture course in biochemistry and molecular biology. Successful candidates are expected to maintain active research programs which involve undergraduate and graduate students. Closing date: 12 May 1989 or until suitable candidates are found. Applicants should submit their curriculum vitae, graduate academic transcripts and statement of teaching and research goals, and arrange to have three letters of recommendation sent to: Dr. J. K. Haynes, Chairman, Department of Biology, Morehouse College, 830 Westview Drive, SW, Atlanta, GA 30314.

**ASSISTANT/ASSOCIATE PROFESSOR OF ANATOMY.** We are seeking dynamic individual to be in charge of the History Lecture and Laboratory Courses, to assist in the preparation of instructional materials, and to fully develop a combination of two or more of the following: research, clinical duties, and/or administrative duties: Minimum requirement Ph.D. in cell biology, genetics, anatomy, or related fields, demonstrated teaching experience in teaching, research, administration, managemenf and funding. Teaching knowledge of anatomy, ocular anatomy and related subjects. Position available: July 1989. Interested candidates please submit résumé and salary history requirements to: Director of Personnel, Penn-sylvania College of Osteopathic Medicine, 1200 West Godfrey Avenue, Philadelphia, PA 19141. No phone calls please. Application deadline 31 May 1989. Affirmative Action Employer/Equal Employment Opportunity.
DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
National Institute of Mental Health

Extramural Research Staff Fellowship Program

The National Institute of Mental Health (NIMH) in the Alcohol, Drug Abuse, and Mental Health Administration (ADAMHA), Public Health Service announces a unique opportunity for both developing and well-established scientists to work closely with senior scientists and administrators in guiding its extramural research support programs. The Extramural Staff Fellowship Program will provide a limited number of fellowship appointments in the biomedical, neuroscience, behavioral, clinical and services research areas. Extramural staff fellowships are intended to give talented scientists at an early, mid-point, or senior level in their career an opportunity to participate in and bring new ideas to the scientific research supported at NIMH. Opportunities may also be available for extramural staff fellows to participate in the relevant research projects in collaboration with the Institute’s intramural research program or with outside organizations. Fellows must hold an M.D., Ph.D., or equivalent degree. Salary will be in the $29,000 to $75,500 range, depending upon training, postdoctoral research experience, and the scope and complexity of the research skills required. Fellows would also be eligible for full Government benefits and leave. U.S. citizenship or permanent residency status is required. Appointments will be made for an initial period of up to two years, and may be extended. Positions will be located in Rockville, Maryland. Interested persons should contact either NIMH Director (Dr. Lewis Judd) or the Deputy Director (Dr. Alan Lesner) at 301-443-3673, or may submit a curriculum vitae in confidence to 5600 Fishers Lane, Room 17-95, Parklawn Building, Rockville, Maryland 20857.

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14 APRIL 1989
POSITIONS OPEN

BIOCHEMISTRY/IMMUNOLOGY

We are seeking an experienced biochemist for a position in the Department of Chemistry and Biochemistry at a leading university. The successful candidate will be expected to have a strong background in biochemistry and immunology, and to be able to contribute to the research programs of the department. The ideal candidate will have a Ph.D. in biochemistry or a related field, and a track record of excellence in research. This position offers an excellent salary and benefits package. The position is available immediately. Interested candidates should send their CV and letters of recommendation to: Professor John W. Brown, Chemistry Department, University of Illinois, Urbana, IL 61801.

BIOCHEMISTRY--MOLECULAR BIOLOGY--FACULTY POSITIONS open for research in the area of virology and immunology. The successful candidate will be expected to have a strong background in virology and immunology, and to be able to contribute to the research programs of the department. The ideal candidate will have a Ph.D. in virology or a related field, and a track record of excellence in research. This position offers an excellent salary and benefits package. The position is available immediately. Interested candidates should send their CV and letters of recommendation to: Professor John W. Brown, Virology Department, University of Illinois, Urbana, IL 61801.

TEMPLE UNIVERSITY

SCHOOL OF MEDICINE

DEPARTMENT OF BIOCHEMISTRY

Applications are invited for the position of Assistant Professor in the Department of Biochemistry. The successful candidate will be expected to have a strong background in biochemistry, and to be able to contribute to the research programs of the department. The ideal candidate will have a Ph.D. in biochemistry or a related field, and a track record of excellence in research. This position offers an excellent salary and benefits package. The position is available immediately. Interested candidates should send their CV and letters of recommendation to: Professor John W. Brown, Biochemistry Department, Temple University, Philadelphia, PA 19140.

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SCHOOL OF MEDICINE

DENVER, COLORADO

DEPARTMENT OF PHYSIOLOGY

APPLICATIONS are invited for the position of Assistant Professor in the Department of Physiology. The successful candidate will be expected to have a strong background in physiology, and to be able to contribute to the research programs of the department. The ideal candidate will have a Ph.D. in physiology or a related field, and a track record of excellence in research. This position offers an excellent salary and benefits package. The position is available immediately. Interested candidates should send their CV and letters of recommendation to: Professor John W. Brown, Physiology Department, University of Colorado, Denver, CO 80202.

CITUS HORTICULTURIST

Academic career-track, 11-month assistant or associate horticulturist in the Department of Horticulture. This position offers an excellent salary and benefits package. The position is available immediately. Interested candidates should send their CV and letters of recommendation to: Professor John W. Brown, Horticulture Department, University of Colorado, Denver, CO 80202.

CITOGENETICIST: Vivigen Laboratory is offering an opening for a Ph.D. in molecular biology, with a strong background in genomics. This position offers an excellent salary and benefits package. The position is available immediately. Interested candidates should send their CV and letters of recommendation to: Professor John W. Brown, Molecular Biology Department, Vivigen Laboratory, Denver, CO 80202.
THE UNIVERSITY OF TEXAS
M. D. ANDERSON CANCER CENTER
AT HOUSTON

Applications are invited for several tenure track positions in the Department of Molecular Genetics both at the Assistant and Associate Professor levels. Successful candidates who will join this expanding Department will develop independent and innovative programs to investigate the molecular basis of cellular functions in normal and cancer cells. The following areas are of particular interest: 1. Molecular embryology of the mouse, investigating the expression and function of specific genes during mouse development. 2. Molecular mechanisms of transcriptional regulation. 3. Intracellular mechanisms of action of growth factors, growth inhibitors, products of oncogenes, and other hormonal effectors. Although these areas are of special concern, we are primarily interested in outstanding individuals working in the field of eucaryotic genetics who will develop vigorous and strongly interactive programs.

Please apply before June 1, 1989, by sending curriculum vitae, a concise description of research interests, and name of three references to:

Benoit de Crombrugghe, M.D., Professor and Chairman
Department of Molecular Genetics—Box 11
The University of Texas M. D. Anderson Cancer Center
1515 Holcombe Boulevard
Houston, Texas 77030

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

Mr. Gregory Stokes
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Washington, DC 20005
EOE

DIR ECTOR OF
PHARMACOLOGY

We are looking for a person with broad-based experience in pharmacology. The ideal candidate would have experience in evaluating new research areas, a depth of understanding of underlying mechanisms, and broad knowledge of in vivo and in vitro screens used in new drug discovery.

Our team employs the very latest in computer assisted drug design technology by using the Computer Automated Structure Evaluation (CASE) program. We are looking for a Director of Pharmacology who will work closely with our theoretical and synthetic chemists, using artificial intelligence techniques to identify new chemical entities. A strong knowledge of the existing literature as well as experience in several therapeutic areas is an asset.

If you are goal oriented, feel you can make a difference and would like to be rewarded for your efforts, Biofor is for you. We are a young and successful company focusing on rational computer aided drug design and would welcome your experience to our team. We offer a competitive salary with the opportunity for substantial growth. We are located in Northeastern Pennsylvania near the beautiful Pocono Mountains. Send resume and salary requirements to:

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Weatherly, PA 18471

Toxicology

Associate Director, Clinical Toxicology & Safety Evaluation

Smith Kline & French, a leader in Pharmaceutical research, is consolidating and expanding its Safety Assessment Departments. The Department of Toxicology is seeking an experienced senior scientist for the position of Associate Director. This individual will provide scientific leadership and management for two expanding groups of scientists and technicians engaged in clinical and pharmacological evaluations of novel therapeutic agents in animals.

The successful candidate will participate with multi-disciplinary teams in drug discovery and development and will have responsibility for designing and conducting studies to define the toxicologic profile of novel therapeutic agents. The incumbent also would manage a group responsible for evaluating the pharmacologic and physiologic effects of therapeutic candidates on major organ system function and relating those effects to the overall determination of safety. Candidates with a DVM or MD and a Ph.D. in pharmacology, physiology or toxicology would be ideally qualified for this position. A proven record of accomplishment in experimental and/or clinical research in one of the above areas is required. The successful candidate may be currently employed in an academic or research institution but experience in the Pharmaceutical industry would be advantageous. Board certification in internal medicine would be desirable.

Based in a modern research facility in suburban Philadelphia near Valley Forge, PA, SK&F provides excellent opportunities for innovative, interdisciplinary research in a stimulating and challenging scientific environment. Attendance at national and international scientific meetings is supported and presentation and publication of scientific work is strongly encouraged. We offer an attractive compensation/benefits and relocation package. For confidential consideration, please forward your C.V. and names of three references to Elizabeth McKendry, L0051, Associate Employment Administrator, Smith Kline & French Laboratories, Research & Development, P.O. 1539, King of Prussia, PA 19406-0939. Equal Opportunity Employer, M/F/H/V.
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IN BIOMEDICAL SCIENCE
1990

Nominations are invited for the 1990 Markey Scholar Awards which provide substantial support in postdoctoral years and in the first five years of faculty service. The sixth series of awards will be made for the twelve-month academic year beginning July 1, 1990.

A maximum of sixteen annual appointments will be made to individuals who hold a Ph.D. or D.Sc., M.D., Ph.D., M.D., D.V.M. or D.D.S. degrees. Awards will provide both a stipend/salary and support for the Scholar’s research. Nominations must be submitted by the institutions in which the nominees will be pursuing postdoctoral research training when the awards are initiated.

For further information and nomination procedure, please write:

Scholar Awards in Biomedical Science
Department 510
Lucille P. Markey Charitable Trust
3250 Mary Street, Suite 405
Miami, FL 33133

Deadline for nominations is October 1, 1989

We are seeking candidates possessing a Ph.D. or M.D. degree for a joint faculty position in the Department of Physiology and Biophysics and the Department of Surgery, Division of Critical Care to develop an interdisciplinary research program related to the study of free radical biology at the molecular, cell or tissue level. The individual must have a demonstrated potential to generate and lead a strong extramurally funded research program in areas including reperfusion phenomena associated with sepsis, low flow states, hemorrhage or organ transplantation. Strong collaboration with ongoing projects in Physiology and Biophysics and in Critical Care is expected. The tenure-track position is at the Assistant or Associate Professor level. Responsibilities include teaching in the medical school and the graduate education programs. Please send curriculum vitae and names and addresses of three references before September 1, 1989 to: Dr. Patrick Eggena, Free Radical Biologist Search Committee, Department of Physiology and Biophysics, Box 1218, The Mount Sinai Medical Center, One Gustave Levy Place, New York, NY 10029-6574. An Equal Opportunity Employer.

MOUNT SINAI
The Mount Sinai Medical Center of New York

Microbial Physiologist/ Molecular Biologist

BioTechnica International, Inc., a company specializing in the development of advanced technologies in the areas of microbial production systems, biochemical engineering and agricultural biotechnology, has an opening at our Cambridge, Massachusetts, laboratory for a highly motivated Ph.D. Research Scientist. The scientist that fills the position will work with a group that genetically engineers bacteria to overproduce amino acids and other specialty chemicals. The ideal candidate will have had experience with biosynthetic pathways, microbial physiology, molecular biology, and gene expression. Postdoctoral experience is preferred but not absolutely necessary.

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Personnel Department
BioTechnica International, Inc.
85 Bolton Street
Cambridge, MA 02140

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BIOCHEMIST

Coors BioTech, Inc. is looking for a qualified scientist to join a multidisciplinary team seeking to develop processes for the production of vitamins and nutritional biochemicals. This position requires a Ph.D and some relevant postdoctoral research experience. The successful candidate will have a strong background in enzyme purification and reaction kinetics and a desire to apply these skills to the development of biotransformation processes. Skills in molecular biology are desirable, with preference given to individuals having experience in yeast or fungal expression systems.

Coors BioTech offers a competitive compensation and benefits package, as well as opportunities for personal and professional growth. Our research facilities are located in Fort Collins, Colorado, an attractive university community conveniently located to the outstanding recreational opportunities found in Colorado.

Please send your curriculum vitae along with three references to:

Personnel
Coors BioTech, Inc.
6204 South College Avenue
Fort Collins, CO 80525
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Environmental Engineer

Monsanto Company is seeking an Environmental Engineer to work in its Environmental Sciences Center located in St. Louis, Missouri. Candidates selected will have a thorough knowledge of chemical fate and transport processes, modeling, and exposure analysis to support all TSCA, RCRA and CERCLA studies.

An advanced degree in Environmental Engineering plus some knowledge of chemistry and biology is required. Demonstrated achievements in mathematical modeling, computerized data bases, risk assessment principles and statistics are extremely important. Independent research capabilities and knowledge of regulatory requirements are also desirable.

Submit your resume and salary expectations in confidence to: Dr. Richard A. Kimerle; MONSANTO COMPANY—UAE, 800 N. Lindbergh Blvd.; St. Louis, MO 63167. Equal Opportunity Employer M/F/H/V

Monsanto

POSTDOCTORAL POSITION

The Geoanalysis Group and the Isotope Geochemistry Group are seeking postdoctoral candidates to investigate photochemical, chemical and physical processes in the atmosphere at regional/global scales. Emphasis is on incorporating atmospheric chemical processes into a general circulation model to investigate radiative and chemical effects of tropospheric and stratospheric methane and halocarbons.

Knowledge of atmospheric chemistry and experience in numerical modeling of atmospheric chemical processes are necessary. Experience with general circulation models or modern analytical instrumentation for analysis of atmospheric species is desirable. Applicants should have a demonstrated record of publishing research results and the ability to interact effectively with a staff with diversified research interests. Good verbal and written communication skills are necessary.

Applicants must have received their doctoral degree within the past three years in chemistry, atmospheric sciences or related areas.

To apply formally, send resume, employment application, graduate and undergraduate transcripts, and three letters of reference to Carol M. Rich, Human Resources Development Division PD-89-056, Los Alamos National Laboratory, Los Alamos, New Mexico 87545.

Affirmative Action/Equal Opportunity Employer. Must be able to obtain a Department of Energy Security Clearance.

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BIOCHEMIST

This position requires a Bachelor's or Master's Degree in Biochemistry or related discipline with experience in Enzymology. Experience with the development of enzyme assays, enzyme kinetics and protein purification required. HPLC experience is desirable.

The incumbent will pursue research on viral proteases and specifically will be responsible for the evaluation of enzyme inhibitors as well as the investigation of mechanistic questions.

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EXPERIENCED CYTOGENETIC TECHNOLOGISTS needed for high-volume private laboratory located in the mountains of northern New Mexico. These positions offer excellent salaries and benefits, resort living and the chance to become part of a dynamic, rapidly growing company through an employee stock purchase program. Send resume and three references to: Yemia Kimmairi, R.B.C., 435 St. Michael’s Drive, Santa Fe, NM 87501. Telephone: 505-988-9774.

- **FOX CHASE CANCER CENTER DEVELOPMENTAL BIOLOGIST FACULTY POSITION**

  The Institute for Cancer Research, the basic science component of the Fox Chase Cancer Center, invites applications for a tenure-track position in the area of developmental biology. Interested candidates should send their curriculum vitae, a brief description of current scientific interest, and three letters of recommendation to:

  Developmental Biologist Search Committee, c/o Developmental Biologist Fox Chase Cancer Center 7701 Burholme Avenue Philadelphia, PA 19111

  Equal Opportunity Employer.

- **DEPARTMENT OF VETERANS AFFAIRS VETERANS HEALTH SERVICES AND RESEARCH ADMINISTRATION MEDICAL RESEARCH SERVICE**

  The Department of Veterans Affairs invites applications for positions of the Director, Medical Research Service. The Medical Research Service currently has a budget of about $200 million and supports biomedical and behavioral sciences research of over 2500 VA scientists, 70 percent of whom are physicians. It is strongly committed to support of patient-oriented research across the entire spectrum from basic science to clinical applications of new knowledge. The Director is responsible for policy development, peer review management of all investigator-initiated research endeavors and budget distribution. Candidates are expected to be nationally recognized scientists and they must have an established record of scholarly achievement. The position is only open to U.S. citizens who hold an M.D. degree. Salary is $75,500 with additional special pay up to $24,000.

  Qualified applicants are invited to send curriculum vitae, bibliography, and the names, addresses and telephone numbers of three respondents by 15 May 1989 to: Richard J. Greene, M.D., Ph.D., Assistant Chief Medical Director for Research and Development, 810 Vermont Avenue, N.W., Washington, D.C. 20420.

- **POSITIONS OPEN**

 - **EXECUTIVE DIRECTOR COLORADO ADVANCED TECHNOLOGY INSTITUTE (CATI)**

    The Commission of the Colorado Advanced Technology Institute (CATI) is seeking candidates for the position of Executive Director. The mission of CATI is "to establish Colorado as an acknowledged world leader in selected technologies so as to be the location of preference for conduct of education, research, product development, and manufacturing in these technologies." The Executive Director will serve as the Chief Administrative Officer of CATI and as the executive officer of the CATI Commission. The Commission is composed of seven appointed voting members representing small and large high technology companies in Colorado, and three ex-officio members representing the Colorado House of Representatives, the Colorado Senate, and the Colorado Commission on Higher Education.

    Preferred candidates will be able to interface effectively with academic institutions, economic development organizations, and the Colorado legislature. The Executive Director must be a leader who is an excellent communicator. This individual will possess demonstrated managerial, lobbying and an understanding of technology and technology transfer. Experience in evaluating technical proposals and business plans is highly desirable.

    Nominations and applications will be sent to:

    R. William Funk
    Heidrick and Struggles
    Administration Position
    1999 Bryan, Suite 1919
    Dallas, TX 75201

    Review of nominations and applications will begin immediately and continue until a suitable candidate is selected.

    CATI is an Affirmative Action/Equal Opportunity Employer.

  - **FACULTY POSITION—MICROFLUID DYNAMICS**

    —The Applied Ocean Science Program at the University of Delaware’s College of Marine Studies invites applications for a tenure-track faculty position to start anytime after 1 September 1989. Requires Ph.D. in the physical sciences and strong teaching and research background in theoretical and experimental work on under-water fluid dynamics. Involves teaching at the graduate level and independent, funded research program in micro-fluidic dynamics including interactions at solid boundaries. Opportunity to interact with ongoing research in: remote sensing, electromagnetic and sound wave interaction with suspended particles, theoretical and numerical methods in acoustic and electromagnetic wave propagation, fluid backwarding, and foaming. Send resume with names of addresses of three references to: Dr. Stephen C. Dyer, Chairman, AOS Search Committee, College of Marine Studies, University of Delaware, New Castle, DE 19985. Closing date: 1 June 1989. The University of Delaware is an Equal Opportunity/Affirmative Action Employer which encourages applications from qualified minority groups and women.

  - **POSITIONS OPEN**

    FACULTY POSITION INVERTEBRATE ZOOLOGY

    Applications are invited for a 9-month tenure-track position at the assistant professor level in the Department of Zoology and Wildlife Science at Auburn University, effective September 1, 1989. The faculty member will have a Ph.D. in biological science with an emphasis in noninsect (freshwater or marine) invertebrate zoology, and must have demonstrated research competence and potential for publication success. Postdoctoral experience is preferred. Applications from theorists are encouraged. The position entails participation in teaching at the freshman zoology level, research in the invertebrate zoology and marine biology programs, and developing graduate-level coursework. The successful candidate will be expected to direct graduate students to develop an independent research program, and to participate in position-related service activities. Salary will be commensurate with experience. Applicants should submit a brief outlining goals, curriculum vitae including training, experience, and list of publications (with selected reprints), academic transcripts, and three to five letters of reference by 21 May 1989 to: Dr. J. P. F. Priest, Head, Department of Zoology and Wildlife Science, Auburn University, AL 36849-5414. Telephone: 205-844-9228. Members of minority groups and women are encouraged to apply. Auburn University is an Affirmative Action/Equal Opportunity Employer.

  - **HIGH ENERGY ACCELERATOR RADIATION CONTROL STAFF SCIENTIST III**—Group leader responsible for defining radiation control requirements for high energy accelerators and radiation source terms, radiation shielding, systems of protection and access control including instrumentation and dosimetry. Estimate radiodose, calculate risk for various materials and experiment designs under various conditions, including situations in the radiation environment. Write computer programs for the design and evaluation of radiation protection systems. Publications in radiation protection or related fields are required.

  - **JUNIOR FACULTY POSITION**—Available in the pharmacology and biochemistry departments to applicants targeted against specific human cancer types. Studies will involve the modulation of anticancer agents with thymidine metabolism. Research will be to understand the potential for thymidine synthase gene inhibition to affect thymidine metabolism of reduced folates, modulation of reduced folate pools, and optimization of drug scheduling for maximum gain. Research will also identify factors that influence the regulation and turnover of thymidylate synthase in elucidating the importance of the enzyme as a therapeutic target. Candidates should have the Ph.D. degree with a minimum of 3 years of postdoctoral experience. A strong background in biochemistry is advantageous. Send curriculum vitae and names of three references to: Dr. I. A. Houghton, Laboratories for Developmental Therapeutics, Department of Pharmacology, St. Jude Children’s Research Hospital, 332 North Lauderdale, Memphis, TN 38101. Equal Opportunity/Affirmative Action Employer.

  - **MOLECULAR IMMUNOLOGIST BRANDeIS UNIVERSITY**

    The Rosenstiel Research Center and the Department of Biology, seek a tenure-track assistant professor in the area of the molecular biology of the immune system. Candidates should have strong research accomplishments in this area. Exceptional individuals at a faculty level will also be considered. Applicants must have an M.D. or Ph.D. in biological science with a strong background in molecular biology and immunology. Send curriculum vitae, including a description of research goals, and the names of three individuals who can supply letters of recommendation to: Molecular Immunology Search Committee, Rosenstiel Research Center, Brandeis University, Post Office Box 9110, Waltham, MA 02254—9110, by 15 June 1989. Brandeis University is an Equal Opportunity/Affirmative Action Employer.
**Gene Expression Sciences**

Smith Kline & French Laboratories, a worldwide pharmaceutical R&D organization committed to excellence in science is seeking several outstanding scientists for multiple positions in the department of Gene Expression Sciences with varying levels of experience.

Senior Investigator/Assoc. Sr. Investigator (Job #S0097)

Pursue research on expression of heterologous proteins in mammalian cells.

The Successful Candidate will have:
- Ph.D. in Biological Science with at least 2-3 years postdoctoral experience.
- Experience in recombinant DNA techniques.
- Experience in the molecular genetics of mammalian cells.

Postdoctoral Scientist (2 Positions)

Pursue research on:
- Position #1 (Yeast, Job #S0065)
  The molecular genetics of yeast (S. cerevisiae and C. albicans)
- Position #2 (Microbial Systems, Job #S0098)
  Clone, isolate and characterize genes which encode protein processing enzymes.
  Express these gene products and aid in their purification and characterization.

The Successful Candidates will have:
- Ph.D. in Molecular Biology or other Biological Science.
- Experience in recombinant DNA techniques.
- Experience in molecular genetics of yeast and protein purification is highly desirable (yeast).
- Experience in isolation of genes from libraries and expression in microbial systems is highly desirable (microbial systems).

Associate Scientist/Scientist (Job #S0099)

Pursue research on gene cloning and expression.

The Successful Candidate will have:
- B.A. or M.S. in Biological Science or related area with 2-5 years laboratory experience.
- Experience in recombinant DNA techniques.
- Experience in molecular genetics of bacteria or yeast and protein purification is highly desirable.

**PLEASE REFER TO APPROPRIATE JOB NUMBER.**

Smith Kline & French Laboratories is located near Valley Forge, Pennsylvania. We offer an excellent compensation and benefits package as well as opportunities for personal and professional growth.

Please submit resume with appropriate job number and salary requirements to: Barbara Schwartz, 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.
POSITIONS OPEN

MAGNETIC RESONANCE SPECTROSCOPIST. Applications are invited for a non-tenure-track position as research assistant professor in the Department of Biochemistry, University of Virginia. Applicants for this position must be expert in the theory of magnetic resonance spectroscopy and in the application of these techniques to lipid bilayers and biological membranes. They must also have extensive experience in the synthesis of phospho- and sphingolipids and other complex membrane lipids. The position will require advanced graduate level teaching of the theory and applications of magnetic resonance spectroscopy. Applicants must hold a Ph.D. degree and have at least 4 years of postdoctoral research experience. Curriculum vitae, copies of academic transcripts and three letters of recommendation should be sent to: Professor T. E. Thompson, Department of Biochemistry, The University of Virginia, Charlottesville, VA 22908. Applications should be postmarked on or before 11 May 1989. *Affirmative Action/Equal Opportunity Employer.*

MEDICAL DIRECTOR. The University of Pittsburgh and Magee-Womens Hospital seek nominations and applications for the position of Medical Director of the Department of Reproductive Genetics. The person should have a M.D. and certification through the American Board of Medical Genetics as a clinical geneticist. The director is expected to establish a research program as well as expand clinical and laboratory services. The department is located in Magee-Womens Hospital, a tertiary care center with approximately 10,000 deliveries annually, provides comprehensive genetic services to both women and newborns. Applicants at the associate or professor level will be considered. Those interested in applying should send their curriculum vitae to: Dr. Robert E. Ferrell, Department of Human Genetics, A316 Crabtree Hall, 130 DeSoto Street, University of Pittsburgh, Pittsburgh, PA 15261. *Equal Opportunity/Affirmative Action Employer.*

FOX CHASE CANCER CENTER MOLECULAR AND CELLULAR BIOLOGY FACULTY POSITIONS

The Institute for Cancer Research, the basic science division of the Fox Chase Cancer Center, has openings for tenure-track, independent research positions in molecular and cellular biology. Creative investigators working with any biological system from prokaryotes and yeast, to mammalian cells are invited to apply. Many of our staff have adjunct appointments in area universities. Send curriculum vitae and a brief description of scientific interests, and have three letters of recommendation sent to:

Chairperson, Molecular and Cellular Biology Research Committee c/o Personnel Department Fox Chase Cancer Center 7701 Bartram Avenue Philadelphia, PA 19111

*Equal Opportunity Employer.*

The Department of Microbiology and Immunology of the Albert Einstein College of Medicine invites applications for a tenure-track ASSISTANT PROFESSORSHIP in MOLECULAR PATHOGENESIS OF INFECTIOUS DISEASES. Candidates are sought who can establish a creative, independent research program that brings knowledge of genetics, molecular biology and microbiology to problems of infectious diseases. Of particular interest are research in viral pathogenesis, including HIV, and bacterial pathogenesis. Candidates should have a Ph.D. or M.D., with at least 2 years of postdoctoral training. Applications containing curriculum vitae, a description of past accomplishments, plans for future research, and names of three references, should be sent to: Departmental Search Committee Department of Microbiology and Immunology Albert Einstein College of Medicine New York, NY 10461

*An Equal Opportunity and Affirmative Action Employer.*

DNA PROBE DIAGNOSTICS MOLECULAR IMMUNOLOGY

Motivated individuals with a Ph.D., M.S., or B.S. degree are encouraged to apply for research and development positions ranging from group leader to Research Associate in the following areas:

- Molecular Immunology
- DNA or Protein Chemistry
- Molecular Genetics
- Mutagenesis
- Expression of recombinant genes

IGEN is a biotechnology company located in Maryland, close to Washington, DC specializing in the development of a new generic diagnostic technology and in the pharmaceutical and therapeutic applications of catalytic antibodies (AB-ZYMES™).

For confidential consideration, please send your curriculum vitae to: IGEN, Inc., Human Resource Manager, 1530 East Jefferson Street, Rockville, Maryland 20852. *EEOC*

POSTDOCTORAL FELLOW

Diabetes Research

Sandoz Pharmaceuticals Corporation is responsible for products that improve the quality of life. Our developments are the result of research conducted by professionals who specialize in many different fields.

The Diabetes Research Department, SANDOZ RESEARCH INSTITUTE, seeks a recent graduate with a Ph.D. in the life sciences to work in our physiology section. The successful candidate must have experience in whole animal and/or isolated organ physiology, as well as a working knowledge of carbohydrate and fat metabolism. The position carries an attractive stipend and offers the freedom to learn, work and publish as part of a multidisciplinary team of chemists, biochemists and molecular biologists, in an exciting and well supported research environment.

For prompt consideration, please respond to position #183RS by sending a curriculum vitae, a list of professional references and a brief summary of prior research experience to:

Robert N. Saunders, Ph.D. 
Director, Human Resources 403/1 
Sandoz Research Institute 
SANDOZ PHARMACEUTICALS CORPORATION 
East Hanover, New Jersey 07936

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SANDOZ 
bringing research to life
The Hospital for Sick Children, a fully accredited, 650-bed pediatric teaching hospital, affiliated with the University of Toronto, seeks a

Pathologist-in-Chief

This is a joint appointment with the Department of Pathology, University of Toronto.

The hospital department has a well-equipped laboratory with facilities for electron microscopy, immunohistochemistry, cytology and histology as well as a medical staff of seven. Applicants should be pediatric pathologists with an established research program, excellent teaching skills and appropriate administrative experience.

Candidates must have a FRCP or equivalent and be eligible for licensure in the Province of Ontario. In accordance with Canadian Immigration requirements, this announcement is directed to Canadian citizens and permanent residents. Potential candidates should submit their curriculum vitae by May 30, with the names of 4 referees, quoting file # D0218, to: Mary Babyn, Pathology Committee, The Hospital for Sick Children, 555 University Avenue, Toronto, Ontario Canada M5G 1X8

THE HOSPITAL FOR SICK CHILDREN

MAKE AN IMPACT

APPLIED BIOSYSTEMS INC., the leading international manufacturer of instrumentation and reagent systems for biotechnology research, is seeking accomplished professionals to be located at our facilities in the San Francisco Bay Area.

SCIENTISTS AND ASSOCIATE SCIENTISTS

Positions are currently available for protein chemists, molecular biologists, organic and analytical chemists with strong backgrounds in structural chemistry and separation sciences.

CHROMATOGRAPHY Conduct research in promising areas for micromolecular separations. Expertise in instrumentation dealing with HPLC and its use in protein or DNA isolation/characterization needed.

ELECTROPHORESIS Explore and develop novel directions in the separation of biomacromolecules and their constituents. Analytical capillary electrophoresis and micropreparative separations by HPEC are areas of current interest.

SEQUENCING Investigate/develop new chemical methodologies for the analysis of proteins. Experience in sample preparation, protocol development and methods troubleshooting required. A BS, MS or PhD in Biochemistry, Analytical or Organic Chemistry, or an equivalent combination is required. Practical laboratory experience from 1-5 years and in-depth understanding of instrumentation essential. (Ref. #SC89KW)

Qualified candidates may send their resume, (INDICATING THE REFERENCE CODE), to Applied Biosystems, Inc., H.R. Dept., 850 Lincoln Centre Drive, Foster City, CA 94404. We are an equal opportunity employer.

BIO-RAD Bio-Rad Laboratories
POSITIONS OPEN

MOLECULAR BIOLOGIST, a junior level research position in our Department of Physiology and Medicine. We are seeking a scientist with research background in molecular biology and an interest in cell differentiation. Candidates should have a Ph.D., M.D., or D.V.M. degree with accomplishments that demonstrate the ability to maintain an independent research program. The applicant will complement the current research in neonatal pulmonary disease conducted by Dr. Robert A. del Nido of this institution and Drs. Richard J. King and Jacqueline J. Coash of The University of Texas Health Science Center at San Antonio. The position focuses on the physiologic and molecular bases of chronic lung disease.

The Southwest Foundation for Biomedical Research is a nonprofit, private research institution with a staff of 45 scientists and facilities for DNA sequencing, oligonucleotide and peptide synthesis, hybridomas, electron microscopy, flow cytometry and computer modeling. It also has extensive nonhuman primate resources which include baboons, rhesus monkeys, and chimpanzees.

Interested candidates should mail curriculum vitae, brief summary of research goals, and names and telephone numbers of three references to: Personnel Director (29), Southwest Foundation for Biomedical Research, P.O. Box 28147, San Antonio, TX 78284.

Equal Opportunity Employer M/W.

POSITIONS OPEN

OB/GYN FACULTY POSITION—POSTDOC—The Department of Obstetrics and Gynecology, University of Oklahoma Health Sciences Center in Oklahoma City is seeking an individual with research interest in endometriosis. Training in immunology, biochemistry, or D.V.M. degree required. Must be skilled in student and resident teaching, research design, and statistical analysis. Send curriculum vitae and bibliography: Robert A. Wild, M.D., Associate Professor, Department of Obstetrics and Gynecology, University of Oklahoma College of Medicine, P.O. Box 26901, 4557 Hitti, Oklahoma City, OK 73100.

PHYSICAL SCIENCE INSTRUCTOR—Master’s degree in one physical science and 24 semester units (12 upper division, 12 graduate) in physical science. Recent lecture and laboratory teaching experience in two or more of the physical sciences: chemistry, physics, engineering, astronomy, or geology. San Diego Community College District, Personnel Employment, 3575 Camino del Rio South, San Diego, CA 92108-3883. Call for appropriate certificated application form: 619-584-6579 or 1-800-648-4023 (outside California). Filing deadline: 4 May 1989. Affirmative Action/Equal Opportunity Employer.

PHYSICIST, Assistant professor, tenure-track, recent Ph.D., with background in electron optical research, particularly electron energy loss spectroscopy and interest in biological applications. Opportunity also for participation in electron microscopy and microspectrophotometry. Appointment is to be made in the Department of Physiology: The appointee will be encouraged to develop and maintain ties with the Department of Physics and/or Materials Science. The position is suited for individuals desiring of developing an independent research program as well as collaborating with cellular biophysicists in the development and application of electron and light optical methods to problems of cell biology. A good grasp of material science, as well as instrumentation, is required. The University of Virginia is an Equal Opportunity Employer.

Please furnish curriculum vitae and resume to: Dr. A. P. Somlyo, Chairman, Department of Physiology, Box 449, University of Virginia, Charlottesville, VA 22908.

PLANT MOLECULAR BIOLOGY AND BIOCHEMISTRY

Calgene is recruiting three Ph.D. level scientists to join interdisciplinary teams working towards the genetic engineering of storage lipids and other agronomic traits in rapes. We are small enough to study olfactory neurobiology. The major interests of the laboratory include the anatomical, behavioral, chemical, electronic, electrophysiological, and hormonal substrates of olfactory communication in several mammalian species. Experience in one or more of these areas is preferred. The successful candidate will be:

1) A biochemist to work on membrane-associated enzymes. Postdoctoral experience in the areas of isolating membrane-bound substrates and techniques of enzyme purification, or lipid biosynthesis will be advantageous but not required. Direct inquiries to File #771.

2) A molecular biologist to work on genes encoding enzymes involved in plant lipid biosynthesis. Direct inquiries to File #772.

3) A molecular biologist to join a team working on expression and regulation of foreign genes in plants. Direct inquiries to File #773.

Two-year appointments for postdoctoral research in prokaryotic and eukaryotic lipid biosynthesis are also available (File #774). Postdoctoral projects will collaborate with Calgene staff scientists and may also include other laboratories; publication of results is strongly encouraged. Candidates may submit their own proposals or consider ongoing research.

Individuals interested in either postdoctoral or regular appointments should send curriculum vitae and a statement of research interest to the relevant files. Calgene, Inc., 1250 Foothill Blvd., Davis, CA 95616.

POSTDOCTORAL AND RESEARCH ASSISTANT POSITIONS available immediately to study immunotherapeutic approaches to treatment of experimental metastases in a mouse model. Postdoctoral applicant should have an M.D. and/or Ph.D. with a strong background in tumor immunology. Send curriculum vitae and names of three references to: Dr. Jaron A. Bash, Surgical Cancer Research Laboratory, Department of Research, Mount Sinai Medical Center, 4300 Alton Road, Miami Beach, FL 33140.

Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

PHARMACOLOGIST—University of Nevada School of Medicine Department of Pharmacology has a tenure-track position for assistant/associate professor. Candidates must have Ph.D./M.D. or equivalent, minimum of 2 years experience in cellular or molecular basis of autonomic cardiovascular or neuropharmacology. Must be committed to quality teaching/research and ability to develop independent, funded research program. Submit letter of application, curriculum vitae, list of names and addresses of three references to: W. T. Gerthoffer, Ph.D., University of Nevada School of Medicine, Reno, NV 89557. Applications received by 1 June 1989. Position will remain open until filled. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL ASSOCIATE: Position available to investigate the targeting signals and mechanisms involved in the transport of macromolecules across the nuclear envelope. Experience in molecular biology preferred but not essential. Salary dependent on qualifications and experience. Please send resume and names of three references to: Dr. Carl Feldherr, Department of Anatomy and Cell Biology, Box 1735, University of Florida, Gainesville, FL 32610. Equal Opportunity/ Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE IN NEUROBIOLOGY

Position available in a laboratory studying the processes controlling neuronal synaptic formation and the development of the functional synaptic components. For the regulatory studies, particular emphasis is being given to the neuronal nuclear acetylcholine receptor family. The laboratory studies cell-cell interactions in regulating acetylcholine receptor expression in neurons. Relevant techniques include immunocytochemistry, electron microscopy, and biochemical and molecular approaches. Experience in ultrastructural techniques is desirable. Please send curriculum vitae, a statement of research experience and interests, and the names of three references to: Dr. Michael Jacob, c/o Personnel Office, Wester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545.

Equal Opportunity/Affirmative Action Employer M/W/H.

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE. Conduct studies on the structure and regulation of the choline acetyltransferase gene and its expression in normal and Alzheimer’s brain. A Ph.D. in biochemistry, biology or related fields preferred. Stipend commensurate with experience. Send curriculum vitae and names of two references to: Dr. T. M. Plant, Department of Physiology, University of Pittsburgh School of Medicine, 616 Scaife Hall, Pittsburgh, PA 15261. The University of Pittsburgh is an Equal Opportunity Employer.

POSTDOCTORAL FELLOW to study the regulation of gonadotropin mRNA by testicular steroids and inhibin in the rhesus monkey under the direction of Drs. B. J. Attardi and T. M. Plant. Experience with cloning techniques would be helpful. Only U.S. citizens or permanent residents are eligible for this position. Send curriculum vitae and names of two references to: Dr. T. M. Plant, Department of Physiology, University of Pittsburgh School of Medicine, 616 Scaife Hall, Pittsburgh, PA 15261. The University of Pittsburgh is an Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP

NIH Staff Fellow/ Senior Staff Fellow position is available at the National Institute on Alcohol Abuse and Alcoholism (NIAAA), for studies of neurotransmitters in the CNS with a special emphasis on monoamines and their role in mood and behavior. The laboratory is committed to the study of molecular, cellular and genetic mechanisms involved in neurochemical regulation of CNS function. Salary is commensurate with experience. Only U.S. citizens or permanent residents are eligible for this position.

Send curriculum vitae and name of three references to: Dr. George Kunos, Laboratory of Physiological and Pharmacologic Studies, NIAAA, 12501 Washington Avenue, Rockville, MD 20852. Telephone: 301-443-1254. NIAAA is an Equal Opportunity Employer.

NEUROBIOLOGY—RESEARCH ASSOCIATE

An opening is now available in the laboratory of Dr. Robert O’Connell to study olfactory neurobiology. The major interests of the laboratory include the anatomical, behavioral, chemical, electronic, electrophysiological, and hormonal substrates of olfactory communication in several mammalian species. Experience in one or more of these areas is required. Are you:

1) A biochemist to work on membrane-associated enzymes. Postdoctoral experience in the areas of isolating membrane-bound substrates and techniques of enzyme purification, or lipid biosynthesis will be advantageous but not required. Direct inquiries to File #771.

2) A molecular biologist to work on genes encoding enzymes involved in plant lipid biosynthesis. Direct inquiries to File #772.

3) A molecular biologist to join a team working on expression and regulation of foreign genes in plants. Direct inquiries to File #773.

Two-year appointments for postdoctoral research in prokaryotic and eukaryotic lipid biosynthesis are also available (File #774). Postdoctoral projects will collaborate with Calgene staff scientists and may also include other laboratories; publication of results is strongly encouraged. Candidates may submit their own proposals or consider ongoing research.

Individuals interested in either postdoctoral or regular appointments should send curriculum vitae and a statement of research interest to the relevant files. Calgene, Inc., 1250 Foothill Blvd., Davis, CA 95616.

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PERINATAL ANATOMIST

Full-time permanent position available immediately in the Pathology Department of a West Coast pediatric hospital for ongoing research project concerned with pregnancy loss and fetal and neonatal death. Primary responsibilities include work on fresh post-mortem studies on second and third trimester stillborn fetuses. Will act as part of an interdisciplinary team including obstetrician, pathologist, cytogeneticist and radiologist. Additional duties to include general anatomist pathology responsibilities. Applicants should have a graduate degree in an applicable field. To apply, send curriculum vitae and names and telephone numbers of three references (postmarked no later than 5 May 1989) to: Box 50, SCIENCE, 5050 Camino de Las Amapolas, Suite 7, San Diego, CA 92108-1359.

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POST-DOCTORAL POSITIONS
PUBLIC HEALTH SERVICE
NATIONAL INSTITUTES OF HEALTH
RESEARCH TRIANGLE PARK, NORTH CAROLINA

Two positions are available under the direction of Dr. Thomas Eling of the Laboratory of Molecular Biophysics, National Institute of Environmental Health Sciences, to study arachidonic acid metabolism in the development of neoplasia. The investigations center upon either eicosanoids as positive or negative regulators of cell growth or the oxidation of chemicals by prostaglandin peroxidase. Individuals with the following areas of expertise and interests are encouraged to apply: (1) Eicosanoid biochemistry, including the isolation and characterization of metabolites, structure and function of enzymes of arachidonic acid metabolism and expression of these enzymes in cellular systems using protein and molecular techniques. (2) Molecular biology, with an emphasis in the expression of proteins in cells as related to growth; the use of northern and southern analyses, cloning techniques and transfection of cells; and the use of expression vectors and other appropriate techniques. Knowledge and interest in oncogenes and suppressor genes desirable. (3) The metabolism of chemical carcinogens to reactive metabolites catalyzed by prostaglandin H peroxidase and peroxyl radicals. Studies can involve the isolation and identification of metabolites and the development of unique biochemical endpoints to assess the importance of this enzyme system in vivo.

Positions are under the NIH Staff Fellow, IRTA or Visiting (if non-U.S. citizen) programs with a salary range of from $20,000 to $29,000 for entry-level candidates. Higher salaries are possible, depending upon candidate's qualifications and experience. Send curriculum vitae, bibliography and three letters of recommendation by May 15, 1989 to:

Bruce Wiggins (HNV2)
NIEHS Personnel Office
P.O. Box 12233
Research Triangle Park, NC 27709

For more information, contact Dr. Thomas Eling at (919) 541-3911/3425.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

Drug Delivery

Smith Kline and French Laboratories, a leader in pharmaceutical research, is currently building a strong multidisciplinary drug delivery department of approximately 30 scientists. This group, located in suburban Philadelphia, will be investigating membrane and transport processes that can be utilized for the delivery of conventional and biotech drugs, and the design of therapeutic systems to meet the biological needs of specific drugs and diseases.

We are therefore seeking outstanding individuals to work in the following areas:

- Drug Absorption
- Drug Targeting
- Drug Carriers

Ph.D. and non-Ph.D. scientists with backgrounds in either cell biology, physiology, biochemistry, biophysics, or chemistry, and a desire to be part of a highly interactive team, are invited to apply. Previous experience of drug delivery research and development is not a prerequisite.

Based in a new, state-of-the-art research facility near Valley Forge, Smith Kline and French provides a stimulating and challenging environment in which to grow and excel. We offer an attractive compensation/benefits and relocation package. For confidential review forward your C.V. and the name of three references to: Terry Gallagher, T103, Smith Kline & French Laboratories, Research and Development, P.O. Box 1539, King of Prussia, PA 19406-0539. We are an Equal Opportunity Employer, M/F/H/V.

SK&F
A SmithKline Beckman Company
Sterling Research Group, the worldwide pharmaceutical research and development organization of Sterling Drug Inc., announces openings for Senior Research Scientists in its Immunopharmacology Department at its Great Valley, PA facility near Philadelphia.

We are currently expanding our Immunopharmacology research program. Scientists who have achieved a record of excellence in the study of molecular immunology of lymphokines and their receptors or in molecular aspects of T cell and macrophage function are invited to apply. We seek highly motivated individuals with superior bench skills, supervisory ability, and a willingness to collaborate with other scientists in a team effort to develop novel drugs for the treatment of diseases related to the immune system. A Ph.D degree with post-doctoral experience is required.

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

Employee Relations, TP-Sc.

STERLING RESEARCH GROUP
A Division of Sterling Drug Inc.
9 Great Valley Parkway
Malvern, PA 19355

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SAMUEL ROBERTS NOBLE FOUNDATION

Postdoctoral Positions in Plant Molecular Biology

Applications are invited for a number of postdoctoral positions for research in plant molecular biology, biochemistry, and cellular biology. The positions will be for 2 or 3 years, and commence in August (project area ‘a’ below) or November 1989. Positions will be available in the following areas:


b. Molecular virology and engineered plant resistance.

c. Molecular biology of plant oxygenases, cytochrome P450s, and O-methyl transferases.

d. Signal molecules and defense gene activation.

e. Plant regeneration and transformation.

Please send resume and 3 letters of recommendation to: Dr. R.A. Dixon, Director, Plant Biology Division, S.R. Noble Foundation, P.O. Box 2180, Ardmore, OK 73402. Telephone (405) 223-5810

Equal Opportunity Employer

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Crystallography and Receptors

The Macromolecular Sciences Department of Smith Kline and French Laboratories, located in suburban Philadelphia, Pennsylvania, is expanding its long-term research program in protein structure-function design studies and seeks several highly motivated and innovative scientists at the senior investigator level. Positions are currently available in receptor structure-function and protein crystallography.

Receptor Structure-Function:

To conduct a research program in the area of receptor-ligand interactions, with emphasis on understanding structural elements underlying binding and activation. Areas of interest include membrane receptors and soluble receptor domains. The position requires a Ph.D. in Chemistry/Biochemistry with two or more years of relevant postdoctoral research. Experience would be desirable in such areas as chemical crosslinking, affinity labeling and chemical modification of proteins.

Protein Crystallography:

To conduct a research program in the determination of high resolution protein three-dimensional structures and to help use this information in protein redesign and de novo design. The position requires a Ph.D. in Chemistry/Biochemistry/Biophysics with at least 2-3 years of postdoctoral experience.

We offer an excellent compensation and benefits package and an attractive relocation policy as well as a work environment that offers considerable opportunity for personal and professional growth. For confidential consideration, send your C.V. and names of three references to Barbara Schwartz, R&D Senior Employment Consultant, Smith Kline and French Laboratories, P.O. Box 1539, King of Prussia, PA 19406. We are an Equal Opportunity Employer, M/F/H/V.

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CURRENT DISTRIBUTION 160,000
Vice President of Research

Vice President and Director of Research, Ph.D. or M.D., for company fabricating living organ equivalents for use in grafting and testing. We seek a candidate with a minimum of 10 years’ research experience in cell biology, extracellular matrix biology and biochemistry with a supporting record of outstanding publications. Knowledge of transplantation immunology desirable. The individual of choice should have managed a large laboratory, been a department chairperson, section head or director of a multidisciplinary research effort. A successful past history of grant support is an element of the profile sought. The Company is prepared to offer a salary-benefits package better than those currently offered in academia. The package will include stock options and participation in a bonus plan as well as the medical, dental and other benefits usually offered. While the charge of the Director of Research is oversight of basic research, an awareness of the need to move potential projects into development is expected.

For immediate consideration, forward resume and salary history to Caryle Connolly, Manager of Human Resources, Organogenesis, Inc., 83 Rogers Street, Cambridge, MA 02142.

Organogenesis Inc.

We are an equal opportunity employer and provide a non-smoking environment.

POSTDOCTORAL SCIENTIST

Amgen, an innovative leader in the application of biotechnology to the discovery and development of promising new human therapeutic proteins and peptides, has an immediate opportunity for a post-doctoral scientist to conduct studies on the effects of growth factors on a variety of mammalian cell lines.

Qualified applicants must have a Ph.D. in Molecular Biology, Cell Biology or a related field as well as experience in culturing various primary and established cell lines. Knowledge of cell physiology and experience with recombinant DNA techniques is essential.

Amgen offers the unique opportunity to participate in challenging research programs with access to a variety of state-of-the-art support facilities. Amgen also offers an excellent compensation and benefits package to post-doctoral scientists.

Qualified applicants should send a complete c.v., in confidence, to:

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Inflammation, Osteoarthritis, Enzymology Research

Team Leaders

ciba-geigy Pharmaceuticals, an industry leader in inflammation research and therapy, offers outstanding career opportunities for innovative scientists interested in Inflammation, Osteoarthritis, and Enzymology.

Director, Inflammation Pharmacology

Lead a team of 15 Immunopharmacologists and Cell Biologists to discover anti-inflammatory agents and agents to treat autoimmune diseases and osteoarthritis. A PhD in Pharmacology, Immunology, or Biochemistry plus 8-10 years of postgraduate research in immunopharmacology is required; extensive background in humoral and cellular immunology is essential. Please respond to Dept 357.

Director, Enzymology and Molecular Biology

Lead a team of 20 Enzymologists and Molecular Biologists to discover agents to treat osteoarthritis, inflammatory and cardiovascular diseases. A PhD in Biochemistry, Molecular Biology or Pharmacology plus 8-10 years of postgraduate experience in enzymology and/or molecular biology with emphasis on inflammation or cardiovascular research is required. Please respond to Dept 343.

Manager, Osteoarthritis Research

Lead a team of 12 Pharmacologists to develop and evaluate in vivo models of osteoarthritis, rheumatoid arthritis and other inflammatory diseases. A PhD in pharmacology with at least 5 years of postgraduate experience in the pharmaceutical industry studying inflammatory diseases is required. Please respond to Dept 355.

These positions further require experience in initiating and implementing drug discovery projects, the ability to lead multidisciplinary research teams, and excellent communication skills.

We offer excellent salaries and benefits, plus a high level of professional visibility and career potential. Reply in confidence, by sending your resume and salary history, indicating department code to: ciba-geigy corporation, Pharmaceuticals Division, 556 Morris Avenue, Summit, New Jersey 07901. We are an Equal Opportunity Employer M/F/H/V.

CIBA-GEIGY
POSTDOCTORAL FELLOWSHIP IN MOLECULAR NEOUROSCIENCE

Two postdoctoral positions are available in the active program of Transplant Immunology. One individual will conduct studies on immunological unresponsiveness induction in transplant recipients using either purified soluble HLA molecules, synthesized peptides, or recipient cells transfected with donor MHC genes. The second individual will study the regulation of expression of HLA genes.

Salary is commensurate with experience and begins at $23,196.

Send curriculum vitae and names of three references to: Marvin G. Garowy, M.D., Immunogenetics and Transplant Immunology, University of California, 513 Furnas Avenue, Health Sciences East, Room 520, San Francisco, CA 94143.

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

POSTDOCTORAL POSITION: Molecular modeling and dynamics simulations of enzyme structure/function and design. Facilities include academic and commercial software packages, interactive computer graphics, and generous CRAY time. Publication and attendance at scientific meetings will be encouraged. Ph.D. and U.S. citizenship required. Send curriculum vitae to: A.M. Fasman, Ph.D., Battelle, Pacific Northwest Laboratory, P.O. Box 999, Department 102, Richland, WA 99352. Position will start Autumn 1989. Battelle is an Equal Opportunity Employer.

POSTDOCTORAL POSITION: Development and maintenance of a multidisciplinary group utilizing genetic engineering, mutagenic characterization, and enzymology to study lignin bioadgradation. Applicants should have training in molecular biology or molecular biology and experience in Send curriculum vitae and names of three references to: Dr. Dean Brecht, 1234 Laboratories, 519 Warrick Laboratory, Department SM, University Park, PA 16802. Applications will be accepted until a suitable candidate is identified. An Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study the molecular mechanism of genetic deletion in bacteriophage T7. Experience in microbial genetics and recombinant DNA techniques highly desirable. Send curriculum vitae and addresses of three references to: Dr. Warren Masker, Department of Biochemistry, Temple University School of Medicine, 3420 North Broad Street, Philadelphia, PA 19140. An Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study the response properties and morphological features of neurons in the brainstem gustatory relay nucleus. Experience in intracellular recording techniques is required. Experience with the use of iontophoresis for tract-tracing or intracellular marking would be ideal. Interests should include the role of glutamate and/or other neurotransmitters in the chemical senses of olfaction and gustation would be advantageous. Inquiries by applicants with interests in these areas are encouraged. Salary range $28,852 to $44,957 commensurate with experience. For application procedures, contact: Rita J. Millard, ARS Personnel, Beltville, MD 20705. For information on the research project, contact: Dr. Antonette A. Betzchart, WRRC, 800 Buchanan Street, Albany, CA 94710 or 415-525-5656. An Equal Employment Opportunity Employer.

POSTDOCTORAL POSITION available immediately for research on structural analysis of DNA conformation and interactions with other ligands. Techniques for analysis include UV, fluorescence and circular dichroism as well as 2D and 2D NMR. Previous experience with nucleic acids is preferred. Send curriculum vitae and three letters of reference to: Professor R. H. Shannon, Department of Pharmaceutical Chemistry, Box 0445, University of California, San Francisco, CA 94143. UCSF is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately for the position of a research fellow in our laboratory in the department of physiology. This is a two-year position. For the position, we require a Ph.D. in physiology or a related field. Salary is negotiable. Send letter of application and three references to: Dr. Sherry A. Sufi, 19104.

POSTDOCTORAL POSITION available immediately to study multidisciplinary group using genetic engineering, mutagenic characterization, and enzymology to study lignin bioadgradation. Applicants should have training in molecular biology or molecular biology and experience in Send curriculum vitae and names of three references to: Dr. Dean Brecht, 1234 Laboratories, 519 Warrick Laboratory, Department SM, University Park, PA 16802. Applications will be accepted until a suitable candidate is identified. An Equal Opportunity Employer.

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Radiomatic Instruments & Chemical Co., Inc., a world leader in radiochromatography detection systems, is a member of the Canberra family of companies serving the life sciences and nuclear instruments market. We are expanding our domestic operation, which has created the following new positions:

**APPLICATION SPECIALIST**

As an Application Specialist in our Technical Support Group, you will provide technical assistance for our radio-chromatography detectors to our customers and field sales force around the world. You will work closely with our R&D and Sales departments in developing new applications and products. A good command of chromatography applications, a sound knowledge of the biological science and excellent verbal and written communication skills are essential. Experience with radioisotopes is a definite plus.

If you are a professional with an M.S. or Ph.D. in chemistry, biochemistry or molecular biology, have a strong background in HPLC, GC or TLC, and possess excellent communication skills, you may be the person we are looking for.

**SALES ENGINEER**

If you are a highly motivated, self-starter professional sales person, we have a position for you in our expanding domestic field sales operation. You will be responsible for selling our line of radio-chromatography products (HPLC, GC, TLC & Chemicals) to the biological research community in the North East (MA, RI and upstate NY).

For this position, we require a minimum of two years of selling experience in the biological sciences marketplace with a strong background in chromato-biology, radiochromatography and liquid scintillation counting. A B.S. degree in life sciences is a real plus.

**PRODUCT SPECIALIST**

As a Product Specialist in our Sales Department, you will support our field sales force with training, product demonstrations and product literature. The additional responsibility for sales within Florida makes this position a unique opportunity.

If you have a B.S. degree in one of the life sciences with a strong preference toward that field, have excellent communications skills and a desire to be involved with an active field sales organization, you may be the person we are looking for. Prior experience with chromatography, scintillation counting and radioisotopes is a plus.

We offer you challenge, growth, competitive salaries or commision plans, and a comprehensive benefits package. For prompt consideration, please send your resume with salary history in confidence to:

**APPLICATION SPECIALIST**

Radiomatic Instruments & Chemical Co., Inc.
Attn: Human Resources
5102 S. Westshore Blvd., Tampa, FL 33611

**SALES ENGINEER**

Radiomatic Instruments & Chemical Co., Inc.
Attn: Human Resources
5102 S. Westshore Blvd., Tampa, FL 33611

**PRODUCT SPECIALIST**

Radiomatic Instruments & Chemical Co., Inc.
Attn: Human Resources
5102 S. Westshore Blvd., Tampa, FL 33611

Cetus Corporation, a leader in the development of biotechnology-based therapeutics for cancer and infectious diseases, is currently seeking the following professional candidates:

**POSTDOC**

In this position, your studies will focus on activation and fractionation of immune effectors cells for use in targeting cytotoxicity via anti-tumor/anti-effector bispecific antibodies. Duties may also include developing and characterizing bispecific antibodies from hybridoma or hybridoma library for eventual application in human cancer therapy. You will be provided with an office and laboratory environment to develop antibodies and characterize their functional properties. Experience with bispecific antibodies to targeted cytotoxicity is highly desirable. Box DR1.

**RESEARCH ASSOCIATE/ASSISTANT**

Duties will include maintaining hybridomas and cell lines; purifying antibodies and antigens; characterizing antibodies by SDS PAGE, IEF, immunoprecipitation, western blotting and Scratchard studies; preparing antibody fragments and conjugates; developing and applying immunoassays; and conducting in vitro ADCC assays. You will work with radioisotopes and human blood samples, as well as to work flexibe hours is also required. Box DR2.

Cetus offers an excellent benefits package along with the opportunity to participate in some of the most exciting research in the Bay Area. For consideration, please send your resume/CV, including publications list and indicating appropriate Box number, to: Cetus Corporation, 1400 Fifty-Third Street, Emeryville, CA 94608. We are an equal opportunity employer.
POSITIONS OPEN

POSTDOCTORAL/RESEARCH ASSOCIATE
POSITIONS AVAILABLE for Ph.D. and/or M.D. to study the function of the hematopoietic extracellular matrix. Projects include matrix purification, the interaction of matrix with hematopoietic growth factors, and the effects of drugs on bone marrow function. Please submit curriculum vitae, a brief description of research experience, and three letters of reference to: Sharon Lutkak, Department of Medicine, Box 325, University of Minnesota Hospitals and Clinics, Minneapolis, MN 55455. Mention of Minnesota is an Equal Opportunity Educator and Employer.

The Board on Agriculture (BA) of the National Research Council (NRC) is seeking a PROGRAM OFFICER to develop and direct research programs in the area of Biotechnology to Agriculture Production and Food Technology. Requires a Ph.D./M.S./M.A. or equivalent in molecular biology or a related field or equivalent professional experience. Ability to gather and analyze data and communicate information written reports, demonstrated knowledge and understanding of molecular biology technologies, familiarity with agricultural applications of biotechnology, and excellent writing and editorial skills required. The National Research Council offers an exceptional benefits package including paid medical, dental, and university tuition. Competitive starting salary. Please send resume in confidence to: NRC/BA, HN 394/TT (Biotechnology), 2101 Constitution Avenue, NW, Washington, DC 20418. Equal Opportunity Employer.

PROTEIN CHEMISTS AND CELL BIOLOGISTS IN BLOOD RESEARCH. Research positions (postdoctoral fellow to senior research scientist) in experimental hematology and protein chemistry to participate in multiple NIH-funded research projects related to interaction of complement and coagulation systems in platelet activation and blood clotting. Prior training or expertise in physical biochemistry, protein chemistry and/or cell biology desired. Position for highly-motivated M.D. or Ph.D. beginning an advanced research position in Transfusion Medicine also available. Contact: Peter J. Sims, M.D., Ph.D., Oklahoma Medical Research Foundation, 625 N.E. 18th Street, Oklahoma City, OK 73104. An Equal Opportunity/Affirmative Action Employer.

RESEARCH SCIENTIST, experimental hematology: NIH-NEUBUHR Translational Research Program. Desired expertise is to identify novel cellular growth factors and their effects on hematopoietic cells. Identification, purification, and physico-chemical and biochemical characterization of these growth factors. Development of myeloid cell differentiation assays as well as other growth factors which act synergistically to stimulate stem cell populations. Development of in vitro and in vivo models for the assay and detection of growth factors which stimulate early hematopoietic stem cells termed HPT-CFC (High Proliferative Potential– Colony Forming Cells). These assays will include bone marrow colony assays, stem cells, and stromal cell assays. Ph.D. in physiology or cell biology required with 2 years of experience in experimental hematology. Salary: $46,000 per year. Job site and interview: Thousand Oaks, California. Send this ad and a resume to: Job # E8G 1806, P.O. Box 95, Thousand Oaks, CA 91363–0560 not later than 29 April 1989.

RESEARCH SCIENTIST/PROGRAMMER to participate in the organization and further development of project-management technology. Knowledge of current computer languages will be optimized to take advantage of a workstation environment using an X-windows interface. At least 3 years of Fortran is prerequisite, and a knowledge of C, UNIX, X-windows, and crystallography would be considered an advantage. Salary will be commensurate with experience. Send curriculum vitae and three letters of recommendation to: Professor Wayne A. Hendrickson, Howard Hughes Medical Institute, Department of Biochemistry and Molecular Biophysics, Columbia University, 630 West 168th Street, New York, NY 10032.

SOIL SCIENTIST
Envirospere Company, the environmental consulting division of Ebasco Services Inc., located in northern New Jersey, is seeking a soil scientist with a strong background in soil morphology, classification and surveying. Experience with soil survey, soil classification desirable. Good oral and written communication skills essential, advanced degree preferred. Ebasco offers excellent growth opportunities, competitive salaries and a comprehensive benefits package. Please send resume including salary history/requirements to: T. A. Caparo, Ebasco Services Inc., 160 Chubb Avenue, Lyndhurst, NJ 07071.

POSITIONS OPEN

QUATERNARY PALEOECOLOGIST
The Department of Geological Sciences and the Graduate Program in Geology at the University of Minnesota, Knoxville are seeking candidates for a tenure-track position at the assistant professor level. Salary is competitive with outstanding growth potential. Applicants should have completed a Ph.D. and have a record of published research in Quaternary paleoecology. Experience in teaching and obtaining external funding is desirable. Send resume and telephone numbers of three references to: Dr. G. Michael Clark, Chairman of Search Committee, Geological Sciences, University of Tennessee, Knoxville, TN 37996–1410. Review of applications will commence on 1 June 1989. UT is an Equal Opportunity/Affirmative Action/TITLE IX/Section 504 Employer.

RADIATION BIOLOGIST
The Department of Radiation Oncology has a new opportunity available for a radiation biologist to join our staff to initiate a hospital-based research program in human oncology and/or radiation biology. A close working relationship with our clinical staff and residents is important. Several years of postdoctoral experience, have excellent oral and written communication skills, and have demonstrated excellence in research. We offer an excellent compensation package. Please send resume, statement of research experience and interests, and three letters of reference to: Martin J. Martin, Director of Personnel, Human Resources Department, Saint Barnabas Medical Center, Old Short Hills Road, Livingston, NJ 07039. We are an Equal Opportunity Employer M/F/H/V.

RESEARCH ASSOCIATE PROPOSAL OR POSTDOCTORAL FELLOW. To join multidisciplinary team investigating new approaches to brain tumor therapy. Individual should have laboratory (animal) background in tumor biology, cancer drug pharmacology, and/or radiation biology. Immediate availability. Send curriculum vitae, list of publications, salary requirements, and names and addresses of three references to: Dr. Bruce F. Kimler, Department of Radiation Oncology, University of Kansas Medical Center, Kansas City, KS 66103.

RESEARCH ASSOCIATE needed for overall supervision of a transgenic mouse production laboratory; DNA microinjection of mouse embryos and embryonic stem cells into blastocysts is required. Human genetic diseases in mice. Must have Ph.D. degree in biochemistry or cellular and developmental biology with 2 years of postdoctoral fellowship experience in mammalian development, tissue culture, in situ analysis, molecular biology, and embryo manipulation. $25,000 per year; 40 hours per week. Send resume to The National Cancer Institute, Division of Basic Research, Scientific Program Office, National Cancer Institute, National Institutes of Health, Building 10, Room 11N207, 10 Center Drive, Bethesda, MD 20892. An Equal Opportunity Employer.

RESEARCH SCIENTIST for the Laboratory of Toxicology, University of Minnesota, Department of Chemistry. Position is available immediately. Send curriculum vitae, list of publications, salary and benefit requirements, and names and addresses of three references to: Dr. Bruce F. Kimler, Department of Radiation Oncology, University of Kansas Medical Center, Kansas City, KS 66103.

POSITIONS OPEN

RESEARCH ASSISTANT PROFESSOR OR POSTDOCTORAL FELLOW. To join multidisciplinary team investigating new approaches to brain tumor therapy. Individual should have laboratory (animal) background in tumor biology, cancer drug pharmacology, and/or radiation biology. Immediate availability. Send curriculum vitae, list of publications, salary requirements, and names and addresses of three references to: Dr. Bruce F. Kimler, Department of Radiation Oncology, University of Kansas Medical Center, Kansas City, KS 66103.

RESEARCH ASSOCIATE needed for overall supervision of a transgenic mouse production laboratory; DNA microinjection of mouse embryos and embryonic stem cells into blastocysts is required. Human genetic diseases in mice. Must have Ph.D. degree in biochemistry or cellular and developmental biology with 2 years of postdoctoral fellowship experience in mammalian development, tissue culture, in situ analysis, molecular biology, and embryo manipulation. $25,000 per year; 40 hours per week. Send resume to The National Cancer Institute, Division of Basic Research, Scientific Program Office, National Cancer Institute, National Institutes of Health, Building 10, Room 11N207, 10 Center Drive, Bethesda, MD 20892. An Equal Opportunity Employer.

RESEARCH ASSOCIATE for the Laboratory of Toxicology, University of Minnesota, Department of Chemistry. Position is available immediately. Send curriculum vitae, list of publications, salary and benefit requirements, and names and addresses of three references to: Dr. Bruce F. Kimler, Department of Radiation Oncology, University of Kansas Medical Center, Kansas City, KS 66103.

RESEARCH ASSISTANT PROFESSOR appointment in the Department of Pharmacology available 1 July 1989. Ph.D. degree in pharmacology, biochemistry, or toxicology and at least 2 years of relevant postdoctoral experience. Candidate will be encouraged to interact with some of the fifteen members of the Laboratory of Hepatobiology and Toxicology (Professor R. Thurman, Director) and develop a productive research experience with modern techniques desirable. Salary commensurate with experience, starting at $36,000 per year. Applicants should send research interests, curriculum vitae and three letters of recommendation to: Connie B. Brite, Administrative Manager, Department of Pharmacology, 1014 BAB 2753, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599–7365. UNC-CH is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

SCIENTIST III. Sandos Crop Protection, a company widely recognized for excellence in agricultural research and development, has an opening in the Basic Insect Research Group in Palo Alto. The successful candidate will be part of an interdisciplinary research team studying insect neuropeptide systems. Requires a B.S./M.S. in biology or an equivalent experience. The area of research will be in the area of peptide protein isolation and sequencing (HPLC, etc.). Microinjection of neuropeptides and electrophysiology is desirable. Must have work habits and recordkeeping abilities. For consideration send your resume to: Sandos Crop Protection, Zoecen Research Institute, Human Resources Department #89-1973 California 27599-7365, Palo Alto, CA 94304– 1104. We are an Equal Opportunity/Affirmative Action Employer.

TECHNOLOGY TRANSFER
USET, Inc., an affiliate of the Maxwell Pergamon Publishing Group, and a major technology transfer and patent management organization serving universities, is seeking a senior professional with broad experience in life science technologies. Activities include extension and in-vestigating and technology tracking at client universities, disclosure evaluation, invention presentation and licensing. Strong organic chemistry background and entrepreneurial proclivities welcome. Candidates from academia and industry will be considered. Salary commensurate with experience. Send curriculum vitae to: Personnel Director USET, Inc. 1465 Port Road East 315 Westport, CT 06881

THEORETICAL/EXPERIMENTAL BIOCHEMISTRY. POSTDOCTORAL SNEUTHERN WASHINGTON UNIVERSITY MEDICAL SCHOOL AND INSTITUTE FOR NEUROSCIENCE

Applications are invited for a tenure-track faculty position in the Department of Physiology. Level may vary from assistant to full professor depending on experience and credentials of the applicant. Candidates must have a Ph.D. and/or M.D. degree(s) and at least 2 years of postdoctoral experience. Individuals with research interests in neural network models are encouraged to apply. The appointee will complement an interactive group of faculty with strong commitment to the study of cellular and integrative aspects of neural control of physiological systems. Candidates should exhibit potential for developing a strong independent research program. Duties also include teaching to professional and Ph.D. students and development of computer-assisted instruction. In order to receive full consideration, interested applicants should submit curriculum vitae, state research goal and summary of teaching experience, and names of four references to the address below by 1 July 1989. Northwestern University is an Affirmative Action and Equal Opportunity Employer. Hiring is contingent upon eligibility to work in the United States.

Barry W. Peterson, Ph.D. Chair
Department of Physiology
Northwestern University Medical School
303 East Chicago Avenue
Chicago, IL 60611
OPPORTUNITIES FOR ANALYTICAL CHEMISTS

Committed To Scientific Excellence

SECTION HEAD
The successful candidate will possess a Ph.D. in Organic or Analytical Chemistry with at least 5 years of supervisory experience in modern pharmaceutical analysis. A strong scientific background is essential to this key appointment. Familiarity with chromatographic techniques, automated dissolution testing and an understanding of pharmaceutical product development is desirable. This senior manager will be expected to supervise the pharmaceutical testing and standard setting processes that are within the purview of the Analytical Sciences Department. Other responsibilities include proper utilization of the physical resources assigned to Pharmaceutical Testing and the Standards Section, particularly the instrumentation and data/information processing equipment.

Located near Albany, New York, which is a center for winter and summer recreation, we offer an attractive salary and benefits program with the opportunity for professional growth. Interested candidates should send their resumes in confidence to:

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Rensselaer, New York 12144
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GROUP LEADER
The successful candidate will possess a Ph.D. in Organic or Analytical Chemistry with industrial experience in the analytical evaluation of drugs and drug products and possess a comprehensive knowledge of applicable current Good Manufacturing Practices regulations. Supervisory experience is required. The Scientist will be expected to supervise a chemical test program for evaluation of drug products and components, to administer the drug product stability program, and provide necessary Interim Control Monographs and reports.

PROGRAM MANAGER
Ocean Optics

THE OFFICE OF NAVAL RESEARCH is seeking a highly qualified individual to plan and manage a contract research program in ocean optics. The sponsored research is conducted principally at universities and private laboratories, with research performed by leading scientists in the field. This is a Civil Service position at the GS-14 or 15 level ($45,592-$74,303), depending on qualifications.

The individual selected will establish goals for and conceive, organize and direct research and development programs in new areas of ocean optics with emphasis on theoretical and experimental aspects of oceanographic radiative energy transfer, ocean color, visibility/imaging, and particulate optics. The incumbent will identify new research opportunities, communicate ONR interests to the scientific community, evaluate and select research proposals for funding, manage available resources, and represent the program within the Navy and DOD. An important aspect of this position is to conceive, develop and market new research ideas to higher Navy management. This position provides the challenge and opportunity to have a creative and significant impact on the direction and quality of research conducted at the national level. Additionally, the opportunity exists to establish or maintain an individual research program at an academic institution or government laboratory.

Applicants must have either (1) a Ph.D. or equivalent in optical oceanography, physics or a related discipline and at least one year of professional experience in ocean optics or (2) acquired a minimum of three years of progressively responsible professional experience. Demonstrated research experience is preferred.

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

OFFICE OF THE CHIEF OF NAVAL RESEARCH
CIVILIAN PERSONNEL DIVISION, OCNR CODE 01242P
ATTN: ANNOUNCEMENT 899-18 (S)
800 NORTH QUINCY STREET
ARLINGTON, VA 22217-5000

Applications will be accepted through June 2, 1989 and must be received by that date. Applicants are requested to complete the appropriate supplemental forms. For further information and supplemental forms, please call (202) 696-4705.

U.S. CITIZENSHIP REQUIRED

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Michael Berridge Center Bloeduegebung = George E. Palade*
Korad Bloch* Hugh R. B. Pelham
Michael Brown James Rothman
Alfred Gilman Joseph Sambrook
Schadenburo Hanausak* Bertfried Schatz
Stuart Kornfeld* Melvin Simon
Daniel E. Kochland, Jr.* Lubert Stryer

PROGRAM

CAREER CHANGE OPPORTUNITY

This unique program offers the candidate with an earned doctorate in the sciences the opportunity to obtain a Ph.D. (in the degree) in two calendar years. Employment opportunities exist in private practice, industry, education, and research. Contact: Dr. D. C. Cox, Ph.D., Director, Accelerated Program, The New England College of Optometry, Room S, 424 Beacon Street, Boston, MA 02115.

WORKSHOP

WORKSHOP ON GENETIC RESPONSE TO ENVIRONMENTAL ADVERSEITY The Airline House, Airline, Virginia 23 to 26 April 1989


FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS IN IMMUNOLOGY The Irvington Institute for Medical Research will award up to ten postdoctoral fellowships in basic laboratory immunology to investigators of study at a hospital or laboratory in the United States, beginning 1 July 1990. Applicants holding M.D.'s, Ph.D.'s, or M.P.H.'s are encouraged. These applicants having no more than 3 years of previous postdoctoral training will receive priority. Successful candidates will receive an incremental stipend of $23,000, $24,000, and $25,000 for years 1, 2, and 3, respectively, with the opportunity to extend their stay for one year.

Applications are due on or before 15 August 1989.

MARKETPLACE

ANTI-VIRAL DRUG TESTING FOR HIV Pan-Beta Systems, Inc. (PBS) offers assistance in drug testing using specifically validated monoclonal/multispecie cultures and PAN-sensitized biolayers. Contact Dr. John Dahlberg, Director of Research, for more information. 133 Tenth St., Oneonta, NY 13820 (716) 607-4358.

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Square oranges? You can see it's not quite right. But in amino acid analysis, it's been difficult to tell what is right. At last you can be sure with AminoQuant, the new amino acid analyzer from Hewlett-Packard. Its results meet today's stringent demands for precision and accuracy at a level consistent with the delicacy and significance of your work.

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Detailed research and rigorous customer site testing allow us to warrant an exceptional set of performance specifications. And it's not just a promise. At installation, we verify that your system, in fact, meets that set of specifications. The specially designed reagents, column and necessary methodology are all provided with the AminoQuant analyzer.

HP's AminoQuant sets a new standard of performance for today's demanding and challenging era of biochemical research. Make it your standard.

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