National Defense Science and Engineering Graduate Fellowships

Starting in Academic Year 1993–1994

As a means of increasing the number of U.S. citizens trained in disciplines of science and engineering of military importance, the Department of Defense plans to award approximately 100 new three-year graduate fellowships in April 1993. National Defense Science and Engineering Graduate Fellowships will be awarded for study and research leading to doctoral degrees in, or closely related to, the following disciplines:

- AERONAUTICAL AND ASTRONAUTICAL ENGINEERING
- BIOSCIENCES (includes Toxicology)
- CHEMICAL ENGINEERING
- CHEMISTRY
- COGNITIVE, NEURAL, AND BEHAVIORAL SCIENCE
- COMPUTER SCIENCE
- ELECTRICAL ENGINEERING
- GEOSCIENCES (includes terrain, water, and air)
- MANUFACTURING SCIENCES AND ENGINEERING (includes Industrial Engineering)
- MATERIALS SCIENCE AND ENGINEERING
- MATHEMATICS
- MECHANICAL ENGINEERING
- NAVAL ARCHITECTURE AND OCEAN ENGINEERING
- OCEANOGRAPHY
- PHYSICS (includes Optics)

Recipients of National Defense Science and Engineering Graduate Fellowships do not incur any military or other service obligation.

Specific information regarding the fellowship and an application package is available from Battelle Memorial Institute, a not-for-profit research institution, which is administering the program for the Department of Defense.

The application package will also contain information about the Office of Naval Research Graduate Fellowship program administered by ASEE and the Air Force Laboratory Graduate Fellowship program administered by SCSEE.

To request a copy of the application materials to be mailed directly to you next fall, contact Battelle at the following address:

NDSEG Fellowship Program
200 Park Drive, Suite 211
P.O. Box 13444
Research Triangle Park, NC 27709-3444
ATTN: Dr. George Outterson
(919) 549-8505.

Completed applications must be received by Battelle by January 20, 1993.
AT&T's Cooperative Research Fellowship Program (CRFP) was initiated twenty years ago to provide financial support for high-potential African Americans, Hispanics, and Native Americans, who are underrepresented in science and engineering. The program helps these individuals pursue doctoral studies in mathematics, computer science, engineering, and the physical sciences. Once you are accepted, the program pays for your tuition, fees, and books. In addition, it grants you an annual stipend ($13,200 for the 1992-1993 academic year) and makes it possible for you to attend conferences. It provides you with a summer job at AT&T Bell Laboratories in a field related to your program. And it supplies you with a Bell Labs mentor to help guide you through the early years of your career.

Today, the program's graduates are part of the fabric of American science and engineering, and they are found throughout industry, academia, and government. Of the sixty-seven Fellows awarded PhDs, twenty-nine (43%) are working in industry and twenty (30%) in academia. The remaining eighteen (27%) are either working in government or pursuing post-doctoral degrees.

A study by the National Action Council for Minorities in Engineering (NACME) concluded that AT&T's CRFP significantly affects the graduate experience and subsequent career paths of the Fellows. As Willetta Greene-Johnson, a 1987 graduate of the University of Chicago and current Professor of Chemistry at Chicago's Loyola University said, "CRFP was a definite, positive experience. The program helped me make my decision to pursue science as a career. My summer job at the Labs gave me an opportunity to see how 'real science' was done."

To obtain an AT&T CRFP application and brochure, call the Program Administrator at 908 949-2943 or mail or fax the coupon below. All applications and supporting materials must be received by January 15, 1993.

Mail or fax this coupon for your AT&T CRFP application and brochure
Mail to: CRFP Program Administrator, AT&T Bell Laboratories,
101 Crawfords Corner Road, Room 1E-230,
Holmdel NJ 07733-3030
FAX: (908) 949-1534

Name ____________________________________________
Address __________________________________________
City ___________________ State ___________ Zip ________
The Graduate School
Baylor College of Medicine
Houston, Texas

Research Training Opportunities in the Biological Sciences

- Graduate studies leading to Ph.D. or M.D./Ph.D. degrees
- Post-doctoral research positions

Located within the Texas Medical Center, Baylor offers research specializations within the following programs and departments. Over 250 Ph.D. candidates share the outstanding research environment with a training faculty of productive and dedicated scientists. These programs offer unexcelled laboratory, classroom and seminar experiences in all disciplines of biomedical science. Stipends are competitive with other major centers. For specific program details, contact the indicated persons below c/o their program, Baylor College of Medicine, Houston, Texas 77030.

- **Department of Biochemistry**: Dr. Rod Kellems, Director of Graduate Studies (713) 798-4527.
- **Center for Biotechnology**: Dr. Michael Hogan, The Center for Biotechnology, 4000 Research Forest Drive, The Woodlands, TX 77381. (713) 363-8404.
- **Program in Cardiovascular Sciences**: Dr. J. C. Allen, Program Director, Dept. of Medicine. (713) 798-6657
- **Department of Cell Biology**: JoKaye Highstrete, Administrator. (713) 798-4598.
- **Program in Cell and Molecular Biology**: Debbie Martin, Administrator. (713) 798-6557
- **Program in Developmental Biology**: Debbie Martin, Administrator. (713) 798-5197.
- **Dept. of Microbiology and Immunology**: Dr. Dorothy Lewis, Director of Graduate Studies. (713) 798-6427
- **Institute for Molecular Genetics**: Dr. Craig Chinault, Director of Graduate Studies. (713) 798-5056.
- **Dept. of Molec. Physiology and Biophysics**: Dr. William Schilling, Director of Graduate Studies. (713) 798-4700.
- **Division of Molecular Virology**: Dr. R. F. Ramig, Director of Graduate Studies. (713) 798-4830.
- **Division of Neuroscience**: Dr. Dan Johnston, Director of Graduate Studies. 1-800-367-9149.
- **Department of Pharmacology**: Dr. Ram Reddy, Director of Graduate Studies. (713) 798-7906.
- **M.D./Ph.D. Program**: Drita Almeida, Administrator. (713) 798-6613.
- **Audiology/Acoustics**: Dr. James Jerger, Director of Graduate Studies. (713) 798-5916.

To receive an application package

**call or write to:**

The Graduate School
Office of Admissions
Baylor College of Medicine
Houston, TX 77030 U.S.A.
tel.: (713) 798-4060 (or 4028)
FAX: (713) 798-6325

(For information on how to apply to these programs electronically, contact schrader@bcm.tmc.edu.)

Baylor College of Medicine is a private, nonsectarian research institution and an equal opportunity employer. The Graduate School welcomes applications from minority and foreign applicants.
ASSISTANT PROFESSOR, MARINE BIOLOGY. The Department of Biology at Occidental College invites applications for a tenure-track position beginning September 1993. The successful candidate will be expected to participate in research and in both macro- and micro-anatomical and functional diversity; develop teaching courses in the area of specialty, and develop an active research program involving undergraduates and the marine environment. Excellent teaching and research facilities, including the 85' research vessel the Vantauna, will be provided. Send curriculum vitae, statement of teaching and research interests and three letters of reference to: Dr. Gary Martin, Department of Biology, Occidental College, Los Angeles, CA 90041 by December 31, 1992. Occidental College is an Equal Opportunity/Affirmative Action Employer.

EVALUATIONARY/POPULATION GENETICIST

ASSISTANT PROFESSOR, tenure-track, to establish a research program in evolutionary and/or population genetics. Preference will be given to candidates who study the genetics of natural populations or use molecular genetic approaches to understand the evolution of genetic systems, populations, species, or higher taxonomic levels in any biological system. Experience in teaching and in an ongoing research program involving undergraduates is required. Send curriculum vitae, research plan, and at least three letters of reference by January 15, 1993 to: Dr. Richard J. Hoffmann, Department of Zoology and Genetics, Iowa State University, Ames, Iowa 50011. Iowa State University is an Equal Opportunity/Affirmative Action Employer. Women, minorities and members of other protected groups are encouraged to apply.

BIOLIGY: ASSISTANT PROFESSOR IN NEUROBIOLOGY. Participate in Human Anatomy and Physiology I & II courses for biology and nursing students, developing and teaching an upper level course in one's discipline, and developing courses as need arises. A strong background in neuroanatomy and/or neurophysiology is required. Applicants must have a Ph.D. and a strong commitment to teaching and mentoring in an undergraduate program involving undergraduates. One of the letters of recommendation must address competence in teaching. Full consideration given to applications received by December 20. Send three letters of application, curriculum vitae, copies of official graduate transcripts, and at least three current letters of recommendation to: Dr. LaVern Whisenton, Search Committee Chair, Biological Department, 11113, MILLERSVILLE UNIVERSITY, P.O. Box 1002, Millersville, PA 17571-0302. Equal Opportunity/Affirmative Action Employer.

VERTEBRATE PHYSIOLOGIST

Tenure-track ASSISTANT PROFESSORSHIP to start September, 1993. Salary dependent upon experience. Duties to include teaching Human Anatomy & Physiology, Mammalian Physiology, Introductory Biology and a graduate course in the area of expertise. Research must have an environmental orientation. Ph.D. required. Send curriculum vitae, transcripts, three reference letters and a brief statement of goals to: Chair, Hiring Committee, Biology Department, Towson State University, Towson, MD 21204. Deadline for applications December 18, 1992. An Equal Opportunity/Affirmative Action Employer.

THE UNIVERSITY OF CALIFORNIA, SAN DIEGO, DEPARTMENT OF CHEMISTRY invites applications for tenure-track faculty positions in all fields of CHEMISTRY and BIOCHEMISTRY at the ASSISTANT PROFESSOR level. Candidates must have a Ph.D. and a demonstrated ability for creative research and teaching at the undergraduate and graduate levels. Salary commensurate with qualifications and based on University of California pay scale. Open position subject to availability of funds. Candidates should send curriculum vitae, a list of publications, reprints of up to five representative papers, a summary of research plans and names and addresses of three references to: Chairman, Staffing Committee, University of California, San Diego, Department of Chemistry—0332, La Jolla, CA 92037-0332. Prompt response is recommended but all applications received by January 31, 1993 will be given thorough consideration. The University of California is an Equal Opportunity/Affirmative Action Employer.
POSITIONS OPEN

THREE ASSISTANT PROFESSORS BIOLOGY

Jacksonville State University, located in northeast Alabama, seeks applications for three nine-month, tenure-track positions. Nature of specialization areas and duties: (1) Vertebrate Ecology—Ecology (sophomore core); ornithology; physiological ecology desired; general biology, advanced course in specialty. (2) Developmental Biology (marine orientation desired)—Developmental Biology; Molecular Cell Biology (sophomore core); General Biology, advanced course in specialty. (3) Immunology/Microbiology—Immunology; Microbiology (health); Genetics (sophomore core); General Biology; advanced course in specialty.

All candidates must have three letters of reference and copies of transcripts to: Personnel Services, Jacksonville State University, 700 Pelham Road North, Jacksonville, AL 36265.

An Equal Opportunity/Affirmative Action Employer.

OHIO UNIVERSITY ASSISTANT PROFESSOR

ANATOMY/BIOMECHANICS. Applications are being accepted for this tenure-track position available September 1, 1993. We seek an individual who is able to teach a vertebrate morphologist with research interests in experimental biomechanics. Related research interests in faculty in our department include functional/correlative morphology and neuro-oncology. We are interested in an individual who can contribute to a joint appointment in the Department of Biological Sciences between the College of Arts and Sciences and the College of Osteopathic Medicine. The annual salary is $32,000. Our department has 50 faculty members, 75 graduate students and excellent research facilities. Ohio University has 18,000 students and is located in a small town in the hills of rural southeastern Ohio where costs of living are moderate. Please send curriculum vitae, statement of research and teaching interests, a few representative publications and three letters of recommendation by January 1, 1993 to: Ms. Jean Witkowski, Department of Biological Sciences, Ohio University, Athens, OH 45701-2979.

Ohio University is an Equal Opportunity/Affirmative Action Employer.

DEVELOPMENTAL NEUROBIOLOGY/ NEUROPHARMACOLOGY

ASSISTANT PROFESSOR, tenure-track, to establish a program in developmental neurobiology/neuropharmacology. Projects should include studying effects of toxic insults or early (neurochemical behavioral) drug exposure and CNS dysfunction. Send curriculum vitae and research plans to: Dr. William Rayburn, Professor and Chief, Maternal-Neonatal Medicine Section, Department of Obstetrics and Gynecology, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, OK 73190. Fax: 405/271-8547. Application deadline is November 30, 1992. The University of Oklahoma is an Equal Opportunity Employer.

VERTEBRATE PHYSIOLOGIST. The Department of Biology at Swarthmore College invites applications for a tenure-track faculty position, preferably at the ASSISTANT PROFESSOR level, beginning September 1, 1993. We seek applicants with a Ph.D. in vertebrate biology who have strong interests in research and graduate teaching. Teaching duties include an advanced course in an area of specialization, a four-week vertebrate biology or physiology, an advanced course in an area of specialty, and participation in introductory biology. Interested individuals should submit: (i) a current curriculum vitae, (ii) three letters of recommendation, and (iii) a statement of teaching and research interests by January 11, 1993 to: Dr. Robert P. Blouin, Chair, Department of Biology, Swarthmore College, Swarthmore, PA 19081. Minority candidates and women are encouraged to apply. Swarthmore College is an Equal Opportunity Employer.

NEUROENDOCRINOLOGIST

The Department of Biology of the University of Massachusetts at Amherst invites applications for a non-tenure-track position beginning September 1, 1993. The successful applicant will teach one course per year in experimental vertebrate endocrinology and participate in research on circadian rhythms and/or seasonal influences on reproductive biology. Salary is competitive. Three letters of recommendation are required. Application deadline is December 15, 1992. Please send curriculum vitae and statement of research interests to: Dr. Eric L. Bittman, Department of Biology, University of Massachusetts, Amherst, MA 01003. The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer.

BIOLOGY. The Department of Biology, University of Central Arkansas, invites applicants for a tenure-track ASSISTANT PROFESSOR position to begin August 1993. Recent Ph.D.'s or postdoctorates are encouraged to apply. Preferential will be given to applicants with expertise in two or more of the following areas: molecular biology, cell biology, genetics, microbiology, immunology, embryology, developmental biology, and endocrinology. The individual will teach and conduct research in the area of his/her specialty, teach lower division courses for biology majors, and generally contribute to the biological core courses. Submit letter of application, current vitae, copies of all transcripts, a brief description of teaching philosophy and research career plans, and three letters of recommendation to: Dr. Edmond Griffin, Chairman, Department of Biology, University of Central Arkansas, Conway, AR 72035, (Telephone: 501/450-3914). The deadline for receipt of applications is January 10, 1993. The University of Central Arkansas is an Affirmative Action/Equal Opportunity Employer.

The Department of Chemistry at Michigan State University (MSU) invites applications from NMR SPEC- TROSCOPISTS with research interests in applying the technique to biologic systems for a tenure-track faculty position that will be available starting Fall 1993. The position will be filled at the ASSISTANT PROFESSOR level. The appointee is expected to develop a strong research program and to be committed to excellence in teaching at both the undergraduate and graduate levels. Interested candidates should send curriculum vitae, a list of publications, a research plan, and three letters of recommendation by January 1, 1993. Please send them to: Professor Gerald T. Babcock, Chairperson, Department of Chemistry, Michigan State University, East Lansing, MI 48824-1322. M.S.U. is an Affirmative Action/Equal Opportunity Institution.

POPULATION/QUANTITATIVE GENETICS THE UNIVERSITY OF MICHIGAN ASSISTANT PROFESSOR

The Department of Biology at the University of Michigan solicits applications for a tenure-track position in the field of Population/Quantitative Genetics. The individual hired will be joining a well established group of ecologists and molecular biologists who are part of a large department of biology, with research interests that embrace a wide range of basic biological phenomena. The specific subfield of interest within population genetics is of less concern than a record of excellence. In addition to establishing a successful research program, the candidate will be expected to engage in undergraduate and graduate-level teaching programs of the Department. Applications should include current curriculum vitae, copies of up to five relevant papers, and a statement of future research plans, and three letters of recommendation. Application deadline is January 15, 1993. Minority and women are especially encouraged to apply. Application materials should be sent to: Chair, Population Genetics Search Committee Department of Biology University of Michigan Natural Science Building Ann Arbor, MI 48109-1048

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

POSITIONS OPEN

UNIVERSITY OF CALIFORNIA, SANTA BARBARA. Tenure-track position in geography available July 1, 1993. Salary and appointment dependent upon qualifications. Applicants at the ASSISTANT PROFESSOR level are encouraged to apply. The Geography Department seeks an outstanding scientist with teaching and research interests in physical geography. Preferably microwave remote sensing, combined with expertise in Earth System science, for example terrestrial ecosystem modeling, remote sensing, and biogeography. Substantial qualifications in geographic research and a strong commitment to graduate and undergraduate teaching are essential. Strong personal computer programming skills and UCLA! Normal office space are available. Closing date: January 4, 1993. Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR. Tenure-track, Fall 1993. Seeking individual to participate in new molecular biology program. Will teach a broad range of undergraduate courses as well as specialized courses at Master's level. Small college atmosphere in magnificent part of North Shore Long Island, 45 minutes from Manhattan. D.D. required; experience and prior teaching desirable. Please send curriculum vitae and supporting materials to: Dr. N. Mieselman, Chairman, Biology Department, University of California, Santa Barbara, 93106. Closing date: February 13, 1993. Equal Opportunity Employer.

ASSISTANT PROFESSOR

Department of Biochemistry and Molecular Biology

A tenure-track faculty position at the Assistant Professor level is available in the Department of Biochemistry and Molecular Biology at Marshall University School of Medicine. We are seeking outstanding candidates who are using molecular and cellular approaches to investigate problems related to cancer or cardiovascular disease. The successful candidate will have a strong established research program and maintain a vigorous, independent research program, and participate in the teaching of medical and graduate students. Interested individuals should send a letter of application, curriculum vitae, a statement of present and future research activities and names, addresses and telephone numbers of three references to:

Dr. Michael R. Moore
Search Committee Chairman
Department of Biochemistry & Molecular Biology
Marshall University School of Medicine
Huntington, WV 25755-9320

*Deadline for application is January 15, 1993. Marshall University encourages applications from women and minorities and is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR/INVERTEBRATE BIOLOGIST. The Department of Biology of Dickinson College seeks applicants for a tenure-track position in Invertebrate Biology with emphasis in neurobiology or symbiosis. Teaching responsibilities include upper level and introductory courses. The successful candidate will have access to institutional start-up and research funds and will be expected to develop an active research program involving undergraduates. Send curriculum vitae, statement of teaching and research interests, and three letters of recommendation by January 15, 1993 to: Dr. Janet S. Wright, Department of Biology, Carlisle, PA 17013. Dickinson College is a highly selective liberal arts college with an emphasis on innovative undergraduate science education. Dickinson is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSISTANT PROFESSOR OF MEDICINE/RHEUMATOLOGY—Position to conduct research, from May 1, 1993 to August 31, 1995, with minimum of three years of experience in research in the area of signal transduction and translation of immune and inflammatory response. Must be skilled in experience with Western blotting and the production, generation and use of monoclonal antibodies. Applicants should send resume to: John L. Skosey, M.D., Ph.D., Professor of Medicine, The University of Chicago, Chicago, P.O. Box 6998 (M/C 787), Chicago, IL 60680. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

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SCIENCE • VOL. 258 • 13 NOVEMBER 1992
Enzymologist/Protein Chemist

The Procter & Gamble Company has an immediate opening for a biochemist/enzymologist in the Research, Pharmaceutical, Procter & Gamble, USA Division. This position requires an M.D. or Ph.D. in biochemistry, protein chemistry, or related field, with at least two years post-doctoral experience. Experience in enzyme biochemistry and kinetics is essential, with knowledge of protein structure/function and protein-protein and receptor interactions desirable. Experience with protease enzymes is highly desirable. The successful candidate will be part of a multi-disciplinary team focused on discovering the role of enzymatic processes in disease, and developing therapeutic interventions targeted at these processes. Exceptional oral and written communication skills are required, as well as the ability to design and execute a successful laboratory program utilizing a variety of techniques such as cell culture, protein purification, enzyme kinetics, immunochemistry, electrophoresis and column chromatography.

Procter & Gamble is a world leader in the research, development, manufacture and marketing of a wide variety of consumer products in the health and beauty care, food and beverage, laundry and cleaning and paper products areas. Annual sales exceed $30 billion, and the R&D budget is over $800 million. We offer excellent opportunities for professional growth, with significant expansion under way in the health care area. We provide competitive salaries and benefits packages, placing us among the top 5% of U.S. firms.

Candidates must be presently authorized to work in the U.S. on a full-time basis. Resumes, with a list of publications and references, should be sent to:

Dr. N.G. Howell, Dept. JM
The Procter & Gamble Company
P.O. Box 398707
Cincinnati, OH 45239-8707

No Agency referrals, please. Allow 6-8 weeks for response. An Equal Opportunity Employer.

NATIONAL INSTITUTES OF HEALTH
THE GRANTS ASSOCIATES PROGRAM

Biomedical and behavioral scientists interested in a career in research administration with the National Institutes of Health (NIH) are invited to compete for the Grants Associates Program. The Program is administered by the Office of Extramural Programs in the Office of the Director, NIH. Independent research experience, motivation for a career in health science administration, good interpersonal skills, and evidence of executive potential are important. U.S. citizenship and a doctorate degree or equivalent experience are required.

The Program prepares the Grants Associate for a leading role in health science administration. Grants Associates participate in one (1) year of individually structured training, including on-the-job assignments, courses and seminars. Grants Associates may be appointed either in the U.S. Civil Service with a salary range of $38,861 to $54,607 (GS-12-14) or in the Commissioned Corps of the U.S. Public Health Service at ranks beginning with Senior Assistant Grade (0-3).

For further information please write to:
Director, HSA Development Programs
National Institutes of Health
Building 31, Room 5B35
9000 Rockville Pike
Bethesda, MD 20892

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

Recruitment Ad for
University of California
Institute on Global Conflict and Cooperation

The University of California Institute on Global Conflict and Cooperation (IGCC) invites applications for two positions as Coordinator of Policy Research. IGCC is a systemwide research unit of the University of California, headquartered on the U.C. San Diego campus. It was established to conduct and encourage research and instructional programs in the causes of international conflict and the opportunities for international cooperation.

The Coordinators of Policy Research report to the Director of IGCC and are responsible for assisting in the organization and conduct of IGCC policy-related projects—for example, on conventional arms control, nuclear proliferation, and nuclear arms control, Asian security relations, international environmental policy, and economic competitiveness and national security. The main responsibilities of the persons occupying these positions are to provide an effective link between scholarship in international affairs conducted in the UC system and the world of foreign policymaking in the United States and abroad. The Coordinators of Policy Research at one and the same time must possess scholarly credentials and enjoy the respect of academics, while being conversant with the major foreign policy issues of the day and having demonstrated experience in the foreign policymaking process. Among the specific tasks of the Coordinators of Policy Research are organizing international conferences addressing major foreign-policy issues, preparing discussion papers for these, disseminating the findings of IGCC policy-relevant studies as widely as possible, working with research directors and development personnel on fundraising, and supervising postdoctoral fellows in related research fields. Teaching one class a year is possible. IGCC seeks candidates who have a Ph.D. in international relations, political science, or natural science, experience in the policy world, and a demonstrated capacity to contribute effectively to the IGCC policy studies program.

Salary and rank commensurate with qualifications and based on UC payscale. Send vitae, names of five referees, samples of written work and any other relevant materials indicating professional accomplishments directly to the following address: University of California, San Diego, Policy Research Search Committee (SCI), Institute on Global Conflict and Cooperation (0519), 9500 Gilman Drive, La Jolla, CA 92039-0518. All applications received by February 1, 1993 or thereafter until positions are filled will receive thorough consideration. UC is an AA/EQ employer.
RESEARCH

SCIOS NOVA

Scios Nova is a biopharmaceutical company with five key innovative products in various phases of clinical testing, and several others in preclinical evaluation. Scios Nova is headquartered in Mountain View, California with additional research and development facilities in Baltimore, Maryland.

We have the following opportunities available at our Mountain View location.

**SCIENTIST**

**Analytical Methods Development**

Your responsibilities will include methods development and validation for recombinant biological products, coordination of stability studies within the AMD group, and supervision of 1-2 Research Associates. You will also generate data and reports suitable for PLA submission. Ph.D in Biochemistry or Analytical Chemistry, coupled with 1-3 years’ experience in analytical methods development and a strong HPLC background are required. Excellent communication and organizational skills are necessary. Experience with GLP/cGMP compliance is a plus. Job Code: 155/VS

**SR. RESEARCH ASSOCIATE**

**Analytical Methods Development**

In this challenging opportunity, you must be able to work in close collaboration with other group members. A BS/MS in Biochemistry or Chemistry, plus 1-3 years’ experience in methods development with a strong HPLC background is required. Experience with computerized data analysis, methods validation or cGMP compliance is an added asset. Job Code: 162/VS


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**Doctoral Fellowships in Neuroscience**

**Benefits**

- Financial support for a period of up to three years
- Travel funds to attend the Society for Neuroscience annual meeting
- Travel funds to visit universities being considered for graduate training
- Summer Training at the Marine Biological Laboratory in Woods Hole, MA

**Eligibility**

- American citizenship or permanent visa residency; and
- Enrollment in a full-time doctoral program.

An additional important factor for selection is that applicants be members of an underrepresented minority group, including but not limited to African Americans, Alaskan Natives, American Indians, Mexican Americans, Pacific Islanders, and Puerto Ricans.

Training is provided in:

- Behavioral Neurobiology
- Cellular Neurobiology
- Developmental Neurobiology
- Membrane Biophysics
- Molecular Neurobiology
- Neurobiology of Aging
- Neuroimmunology
- Neuropathology
- Neuropharmacology
- Neurophysiology
- Neurotoxicology

Applications are accepted in the fall and must be received no later than January 15 of each year. Awards are announced by March 1. Funding is provided by the National Institute of Mental Health.

For information write:

The American Psychological Association
Minority Fellowship Program/Neuroscience
750 First Street, NE
Washington, DC 20002-4242
(202) 336-6027

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**HUNTER COLLEGE**

**INSTITUTE FOR BIOMOLECULAR STRUCTURE AND FUNCTION**

Undergraduate, Masters, Doctoral and Post-Doctoral Level Research Opportunities in:

- Biochemistry
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**Research Centers in Minority Institutions (RCMI) Program:**

Exciting Ph.D. and Post-Doctoral research opportunities in nationally known laboratories. The Minority Biomedical Research Support (MBRS) Program: Undergraduate and Graduate students employed in experimental research projects, as assistant positions and partial tuition.

For more information, contact:

HUNTER COLLEGE
RCMI Program, Room 1323 HN (212-772-5532)
MBRS Program, Room 314 HN (212-772-5243)
MARC Program, Room 314 HN (212-772-5245)
695 PARK AVENUE
NEW YORK, NEW YORK 10021-5024

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**A new centre of an important French pharmaceutical company wants to strengthen its neuroscience unit by creating several positions in the following fields:**

- Neurochemistry
- Receptor Binding and Second Messengers
- Electrophysiology
- Behaviour

The successful candidates with PH.D and Post-Doctoral experience will form new research teams involved in the discovery of new drugs in the fields of neurological disease and psychopharmacology.

The centre is based in the Paris region. A knowledge of French would be an asset.

Please submit a CV, a photo and a handwritten letter to

Media-System, 6 impasse des Deux-Cousins, 75849 Paris Cedex 17, France, quoting ref. 37789 on the envelope.
The University of Tennessee, Knoxville, seeks a Director for its proposed Division of Biology, which includes the Departments of Biochemistry, Botany, Microbiology and Zoology, the Graduate Program in Ecology and other interdisciplinary life sciences graduate programs. UTK is the major research campus and center for graduate education of the University of Tennessee system and has numerous collaborative interactions with the Oak Ridge National Laboratory. The Director will have budgetary authority and will be responsible for future development and structure of the Division and its academic programs. Applicants should have a broad perspective on biology as well as the interactive skills necessary for dealing with a faculty having diverse scientific interests. Candidates should provide evidence of administrative skills and significant research achievement commensurate with a professorial appointment. The successful candidate will have an understanding and demonstrated commitment to equal employment opportunity and affirmative action. Inquiries and applications, with curriculum vitae and names, addresses and phone numbers of three individuals able to provide recommendation, should be directed to: Prof. Mary Ann Handel, Biology Consortium, M303 Walters Life Sciences Building, University of Tennessee, Knoxville, TN 37996-0830 (Tel: 615/974-6841). Review of applications will begin early in January, 1993. UTK is an EEO/Title IX/Section 504/ADA Employer.

FACULTY POSITIONS
UCR/UCLA PROGRAM
IN BIOMEDICAL SCIENCES

The UCR/UCLA Program in Biomedical Sciences, which offers an accelerated M.D. curriculum jointly between the University of California, Riverside (UCR), and the University of California, Los Angeles (UCLA), School of Medicine, has two tenure-track openings at the level of ASSISTANT PROFESSOR in the Division of Biomedical Sciences at UCR available July 1, 1993.

NEUROSCIENCES. Primary teaching responsibilities will be in cellular neurobiology, including electrophysiology, for first-year medical students.

PHYSIOLOGY. Primary teaching responsibilities will be in cardiovascular, respiratory and gastrointestinal physiology for first-year medical students.

Applicants must have a Ph.D. and/or M.D. degree, postdoctoral research experience, and must be able to develop a strong independent research program. The specific area of research is open, but preference will be given to cell biologists or physiologists who are using molecular and cellular techniques in their studies. Applicants should also have a strong commitment to teaching both medical and graduate students. Prior teaching experience in a medical school basic science curriculum is preferred. Applicants should send a curriculum vitae, bibliography, two or three representative reprints, a statement of present and future research goals, current grant support, and the names of three references. The deadline for applications and nominations is December 1, 1992.

Send applications to: David A. Johnson, Chair (Neurosciences) or Paul M. Quinton, Chair (Physiology), Division of Biomedical Sciences, University of California, Riverside, CA 92521-0121.

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

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Here at Chiron, we are on the leading edge of biotechnology research and scientific advancement.

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It all adds up to a stimulating environment and solid foundation. And now there are exceptional opportunities for people who want to make a difference. If you have the dedication, spirit and flexibility to rise to our many challenges, contact us today! You will apply your talents working for humankind, discovering rewards far greater than you’ve ever imagined.

Send your resume/CV to: Chiron Corporation, 4560 Horton St., Emeryville, CA 94608.
Applications are invited for a tenure-track plant physiology position at the ASSISTANT PROFESSOR level in the Department of Biology at Virginia Polytechnic Institute and State University. The successful candidate will be expected to build on existing strengths within the Molecular and Cellular Biology program of the Virginia Polytechnic Institute and State University. Responsibilities include teaching undergraduate courses in botany, conducting research in a specialty area, and providing service to the university and the profession. Examples of research specialties include (but are not limited to) general plant physiology, plant pathology, stress physiology, physiological plant ecology, and developmental physiology. Minimum Qualifications: Earned doctorate in a biological science; effective oral and written communication skills. Preferred Qualifications: Demonstrated teaching ability and publications and/or evidence of other scholarly activity. Please send letter of application, resume, three (3) letters of reference and addresses for three (3) referees to Dr. C. B. E. Wren, Search and Selection Committee, Department of Biology, Ball State University, Muncie, IN 47306. Review of applications will begin immediately and continue until the position is filled.

Ball State University is an Equal Opportunity/Affirmative Action Employer and is strongly and actively committed to diversity within its community.

ASSISTANT PROFESSOR OF GENETICS
Harvard Medical School and Dana-Farber Cancer Institute

The Dana-Farber Cancer Institute and the Department of Genetics, Harvard Medical School invite applications for a tenure-track position of Assistant Professor of Genetics. Candidates should have strong credentials in specialized areas in areas of molecular genetics such as cell cycle, differentiation, tumor suppression or gene regulation. Major responsibilities will include supervision of an active research program and participation in teaching the genetics and molecular biology to graduate and medical students. Applicants should submit a research summary, curriculum vitae, and three letters of reference by December 31, 1992, to: Dr. Priscilla Schaffer, Chairperson of the Search Committee, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115.

ASSISTANT PROFESSOR, GENETICS, DEPARTMENT OF BIOLOGY, University of Alberta at Bakersfield

Several tenure-track faculty positions are available in 1993. Areas of particular interest include chromosomology, photosynthesis, plant transcriptase, transgenic and transgenic regulation, RNA processing and control of development in lower and higher eukaryotes; however, outstanding candidates in any area of genetics are encouraged to apply. Successful applicants will be expected to teach, conduct research in graduate and medical/dental curricula as well as direct active research programs. Please send curriculum vitae, a brief statement of present and future research interests, selected reprints and the names/addresses of three references by January 31, 1993, to: Dr. Tim Townes, Search Committee Chairperson, Department of Biochemistry, Schools of Medicine/Dentistry, University of Alberta at Bakersfield, 2000-Montgomery Road, Bakersfield, CA 93311.

ANIMAL POPULATION GENETICIST/MOLECULAR SYSTEMATIST

Full-time, tenure-track ASSISTANT PROFESSOR position available September 1, 1993. Teaching responsibilities will include an interdisciplinary, team-taught "Science in Context" course for non-majors, possibly in conservation biology, as well as upper-level and graduate classes designed for the candidate's specialty. Participation in a junior level genetics course or freshman level diversity of life course is expected. Faculty are expected to develop research programs in undergraduate and graduate research. Ph.D. in the biological sciences, and commitment to liberal arts and science education and cultural diversity. Submit interest letter, curriculum vitae and one reference letter by December 31, 1992, to: Population Genetics Search, University of Puget Sound, P.O. Box 35460, Tacoma, WA 98412.

EVOLUTIONARY ECOLOGY

Applications are invited for a tenure-track faculty position in Evolutionary Ecology to begin August 1993. We are interested in attracting candidates for the ASSISTANT PROFESSOR level attempting to understand the evolution of ecologically important traits in any system, especially plant or plant-animal systems. But outstanding evolutionary ecologists, to be invited to join the University of Virginia's Center for Evolutionary Ecology, and to contribute to graduate training at both lower and upper-division undergraduate levels. Send curriculum vitae, statement of research interests, and three letters of reference by January 15, 1993, to: Dr. Joseph O. Finkenhain, Chair, of the Search Committee, Department of Biology, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061-0405. Virginia Polytechnic Institute and State University has a strong commitment to the principle of diversity, and, in that spirit, seeks a broad spectrum of candidates including women, members of minority groups, and people with disabilities.

The Biomedical Engineering Department at the University of Virginia invites applications for an ASSISTANT PROFESSOR in the domain of biomedical modeling and biomedical engineering (major axes of cardiac or neuromuscular electrophysiology or joint biomechanics). Functional and/or integrative research programs are expected to contribute to graduate teaching of the Institute in addition to the supervision of graduate students. Participate in undergraduate introductory program. Requirements: Ph.D. in biomedical engineering or equivalent background; list of pertinent publications; appropriate research experience; fluency in written and spoken French is required. Expected starting date: June 1993. Salary: according to the collective agreement. Please send curriculum vitae and three reference letters before January 31, 1992, to: A. Robert LeBlanc, Director, Institute de génie biomédical, Université de Montréal, C.P. 6128, succursal A, Montréal, Quebec (Canada), H3C 3J7. In accordance with Nova Scotia's Immigration Requirements, this advertisement is directed to Canadian citizens and permanent residents.

BOTANIST: The Biology Department, University of Puerto Rico, Rio Piedras has a tenure-track position at the ASSISTANT PROFESSOR level beginning August 1993. The position is within the subdiscipline of botany except plant ecology and angiosperm systematics. The successful candidate will be expected to teach undergraduate courses in the graduate botany courses (M.S. and Ph.D.) and develop an active research program. A Ph.D. is required and knowledge of Spanish is desirable. The application (curriculum vitae, statement of research and teaching interests, and three letters of reference) should be received by January 15, 1993, to: T. Mitchell, Aide/Botany Search Committee Chairperson, P.O. Box 25350, UPR Station, San Juan, PR 00931-3560.
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Natural Products Discovery
Scientist (#92-84)
Responsibilities consist of development, validation and implementation of high throughput assays for drug discovery. Techniques involve radioligand binding, enzymatic and cellular functional response assays. Experience in signal transduction or second messenger systems desired. Ph.D. or equivalent experience in Biochemistry, Pharmacology or related field.

Associate Scientists (#92-93)
Duties include development, validation and implementation of high throughput assays for drug discovery. Experience with protein isolation and purification desired. Techniques involve radioligand binding, spectroscopic based and cellular response assays. BS or MS in Biochemistry or related field, with 2-4 years of applicable experience.

PANLABS is an international company providing R&D services to the pharmaceutical industry worldwide, located north of Seattle. Submit resume/CV with 3 references to:

PANLABS, INC.
Human Resources (include #)
11804 North Creek Parkway S.
Booth, WA 98011-8605

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- Pathogenic Mechanisms; Bacteria, Fungi and viruses
- Human Genetics

For information and application materials for graduate study please write:

Director of Graduate Studies
Department of Molecular Genetics, Biochemistry and Microbiology
University of Cincinnati
College of Medicine
Cincinnati, OH 45267–0524

FAX 513-558-8474

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NOT JUST TALK, ACTION

At Adria Laboratories, Equal Opportunity Employment is more than just a good intention, it’s acting on a principle with full support and total commitment. As a research-based organization we understand that diversity makes us strong and contributes to our growth. It’s through the talent and teamwork of many different people that Adria Laboratories has become a renowned pharmaceutical leader in the development, manufacture, and marketing of oncology and AIDS-related drugs. In fact, we are proud to be the maker of some of the most important anti-cancer and AIDS-related drugs in the world including Adriamycin, Idamycin and Mycobutin.

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ASCB and MBL Fellowship Opportunities for Under-Represented Minorities in Science

The American Society for Cell Biology in cooperation with the Marine Biological Laboratory offers financial assistance to qualified minority students attending summer courses at the MBL. Awards are granted to graduate students, postdoctoral fellows and young faculty who are U.S. citizens or permanent residents and are admitted to an MBL summer course in cell, developmental or molecular biology. Awards may cover MBL course tuition, room & board, and travel expenses. Graduates of Minority Biomedical Research Programs (MBRS) and Minorities Access to Research Career Programs (MARC)-eligible institutions are encouraged to apply.

The Porter Fellowship for Minority Students/Investigators is available to support young minority scientists who are U.S. citizens or permanent residents doing research in the field of physiology with MBL senior investigators, or who are admitted to MBL summer courses. The award contributes toward summer expenses at the MBL, including travel.

For further information, please contact:

Dorianne Chrysler, Admissions Coordinator, Marine Biological Laboratory, Woods Hole, MA 02543 Phone:(508) 548-3705 ext. 216
POSTDOCTORAL and RESEARCH ASSISTANT POSITIONS in CHEMISTRY, BIOLOGY, MICROBIOLOGY, EPIDEMIOLOGY and STATISTICS

The National Institute of Dental Research (NIDR), National Institutes of Health (NIH), invites applicants with D.M.D., D.D.S., M.D., Ph.D., or D.V.M. to apply for postdoctoral positions. Areas under study include chemistry, biology, microbiology, epidemiology and statistics related to the oral health field. Fellowships offer research training in the laboratories of NIDR. Stipend commensurate with experience. U.S. citizens, permanent residents, and non-U.S. citizens eligible. Send curriculum vitae, bibliography and three letters of reference to the address below.

Other opportunities available are permanent and temporary positions as chemistry, biology and microbiology laboratory assistants. B.S. or B.A. plus specific experience desirable but not mandatory. Positions are at 9000 Rockville Pike, Building 31, Room 2C-23, Bethesda, Maryland 20892. NIH is an Equal Opportunity Employer. U.S. Citizenship is Required.

Personnel Officer
National Institute of Dental Research
National Institutes of Health
9000 Rockville Pike
Building 31, Room 2C-23
Bethesda, Maryland 20892

University of Medicine & Dentistry of New Jersey
Graduate School of Biomedical Sciences
at Robert Wood Johnson Medical School

Graduate Program in Biochemistry and Molecular Biology
Director: Masayori Inouye, Ph.D.
Graduate Program in Molecular Genetics and Microbiology
Director: Sidney Pestka, M.D.

The Graduate School of Biomedical Sciences at Robert Wood Johnson Medical School is located on the Busch campus of Rutgers University in central New Jersey, about 45 miles south of New York City. Its graduate programs in Biochemistry and Molecular Biology and in Molecular Genetics and Microbiology lead to a Ph.D. degree and offer the opportunity to do research at the Robert Wood Johnson Medical School, Rutgers University, the Center for Advanced Biotechnology and Medicine and the Waksman Institute. An M.D./Ph.D. program is also available. Areas of research include gene expression, protein structure, signal transduction, oncogenes, transgenic mice, virology, immunology and interferons. Graduate student stipends will be $12,000/year plus tuition. Write to: University of Medicine & Dentistry of New Jersey, Graduate School of Biomedical Sciences, 675 Hoes Lane, Piscataway, NJ 08854 for more information about the programs and an application form.

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SENIOR SCIENTIST
Joining a team involved in Oncology research, this senior scientist position requires a PhD with 7+ years’ industrial or academic experience and training in immunology, molecular, cell or tumor biology and outstanding scientific credentials. Specifically, you will be responsible for establishing research programs with an emphasis on cell growth control and differentiation/metastasis processes and signal transduction toward the goal of developing novel therapeutics and elucidating their mechanisms of action.

SCIENTIST
As a pivotal member of our Biological Chemistry Department, you’ll convert initial Oncology and Cardiovascular research findings into novel pharmaceutical drugs, collaborating closely with our Medicinal Chemistry and Pharmacology teams. Your PhD in Biochemistry with at least 4 years’ postdoctoral experience has prepared you to discover and apply receptor based assays to the identification of potential drug leads. This position also demands extensive training in receptor biochemistry and analysis or receptor-ligand interactions in tissues or transformed cell lines. Familiarity with molecular biology, mammalian cell biology and immunology is desirable.

As a U.S. subsidiary of an international Fortune 500 company, Berlex offers competitive salaries and benefits, which include relocation assistance. To join our preeminent team, please send your resume today, indicating position of interest to: BERLEX BIOSCIENCES, HUMAN RESOURCES, 213 E. GRAND AVENUE, DEPT. SCI16, SOUTH SAN FRANCISCO, CA 94080. We are an equal opportunity employer.

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ASSISTANT PROFESSOR OR POSTDOCTORAL FELLOW
(Recent on Experience)

is sought at the University of Colorado/Denver VA Medical Center. Research is oriented at elucidating neural control of the upper airway musculature with a particular interest in sleep effects on these mechanisms. Experience with central and peripheral neural recording is desirable. Recruited individual will work with M.D. investigators interested in disorders of breathing during sleep. Send curriculum vitae to: David P. White, M.D., Respiratory Care (111A), Denver VA Medical Center, 1055 Clermont Street, Denver, CO 80220.

ASSISTANT PROFESSOR OF BIOLOGY

Active, five-person department seeks cellular/molecular biologist, prepared also to teach microbiology. Ph.D. and commitment to undergraduate teaching required; research focus open; research involving students a plus. New laboratory facility opens January 1993. Send curriculum vitae and reference list to: Dr. Ralph J. Peter; Chair, Department of Biology; Lynchburg College; 1501 Lakeside Drive; Lynchburg, VA 24501-3199 by November 30, 1992. Lynchburg invites applications from women and minority candidates. Equal Opportunity Employer.

EMORY UNIVERSITY

SCHOOL OF MEDICINE

FACULTY POSITIONS IN RADIATION ONCOLOGY

The newly established Division of Cancer Biology in the Department of Radiation Oncology at Emory University School of Medicine invites applications or nominations for tenure-track, basic science faculty positions at the ASSISTANT; ASSOCIATE, or FULL PROFESSOR levels. Faculty members will have the opportunity to participate in the graduate student training and teaching programs of the Emory University Graduate School Division of Biomedical and Biomedical Sciences. An emphasis in biology is anticipated, but not restricted to DNA damage and repair, mutagenesis, oncogenes, oxygen radical toxicity, radio biology, and mechanisms of tumor progression/metastasis. Collaborations are anticipated with faculty in the basic science and clinical departments, as well as the Winship Cancer Center of Emory University. Competitive support and research funds are available for these positions. Ph.D. or M.D. degree required. Faculty rank commensurate with demonstrated background and potential. Applications will be accepted until positions are filled. Applications together with curriculum vitae and a statement of research interests and the names of three references should be sent to: Paul W. Doetsch, Ph.D., Department of Biochemistry, Emory University School of Medicine, Rollins Research Center, Atlanta, GA 30322-3050. Emory University is an Equal Opportunity/Affirmative Action Employer.

CANCER GENETICS

FACULTY POSITION

Louisiana State University Medical Center (LSUMC)

The Stanley S. Scott Cancer Center invites applications for tenure-track positions in the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level. The appointment will also include an appointment in an appropriate basic sciences department. The successful candidate is expected to develop an independent research program and participate in departmental teaching. Candidates with interests in any area of basic science related to the cancer process will be considered. Preference will be given to candidates with interests in gene expression and the genetic changes associated with cancer. Interested individuals should send curriculum vitae with bibliography, short (three pages) summary of planned research, and the names and addresses of three references to: Dr. Prescott S. B. Roberts, Department of Biochemistry and Biophysics, Louisiana State University Medical Center, 1901 Perdido Street, New Orleans, LA 70112. LSUMC is an Equal Employment Opportunity/Affirmative Action Employer.

FOUR VACANCIES IN BIOLOGY

ASSISTANT OR ASSOCIATE PROFESSOR

The Department of Biology, University of South Dakota, invites applications for four tenure-track positions in biology available August 15, 1993. Applicants must have a Ph.D. by the time of appointment and possess strong commitment in teaching and research. Areas of concentration to be included are: (1) Membrane Biologist, (2) Fisheries/Aquatic Biologist, (3) Population Geneticist, and (4) Botanist. The successful candidate will also complete a competitive research program in their area of specialty and to teach and advise undergraduate and graduate students (M.A. and Ph.D.). Start-up packages will be available. The research areas of the successful applicants will complement the department's emphasis in ecology and environmental physiology. Salary is commensurate with experience and qualifications. Detailed position announcements are available upon request. Applicants should submit curriculum vitae, vita, and the names, addresses and telephone numbers of four individuals who may be contacted for letters of recommendation. Screening begins December 1, 1992 and will continue until suitable candidates are hired. Inquiries and applications should be directed to: Dr. Jack Butler, Department of Biology, University of South Dakota, Vermillion, S.D., 57069; Telephone: (605) 677-5073, FAX: (605) 677-5078.

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

MOLECULAR BIOLOGIST/ANATOMIST OF DALLAS

The University of Dallas, a selective Catholic liberal arts university, seeks a molecular biologist for a tenure-track appointment at the ASSISTANT or ASSOCIATE PROFESSOR level beginning August 1993. He/ she should be able to teach cell/ molecular biology, microbiology, and either comparative anatomy or developmental biology. Successful candidates will also teach a course in their field. Ph.D. in an active research program with undergraduates. Ph.D. is required along with strong teaching and research ability. Applicants should submit curriculum vitae, names of three references, and a statement describing their nature of their commitment to undergraduate teaching and research. These items should be submitted to: Dr. Frank Doe, Department of Biology, University of Dallas, Irving, TX 75062. Review of applications will begin November 30, 1992. Equal Opportunity Employer.

FACULTY POSITION, MOLECULAR Biology of Infectious Diseases

The Department of Microbiology at Colorado State University invites applications for a tenure-track assistant or associate professor position to address the molecular biology of infectious diseases. Postdoctoral experience in a bacterial pathogenesis laboratory is desirable. A Ph.D. in molecular biology is preferred. The successful candidate will have the opportunity to establish an independent research program and participate in the teaching of undergraduate and graduate courses within the Department and the College. There will be ample opportunity to interact with faculty and students in our nationally recognized programs such as those concerning mycobacteria and arthro- bactera and new bacterial infectious diseases. Applicants should send curriculum vitae, research interests, and a list of at least three references to: Dr. Ian Orme, Search Committee Chairman, Department of Microbiology, Colorado State University, Fort Collins, CO 80523; Telephone: 303-491-5777; FAX: 303-491-5777 by December 31, 1992. Colorado State University is an Equal Opportunity/Affirmative Action Employer.

DIRECTOR, MARINE CONSERVATION

To promote conservation of the marine resources of the southeast United States, the University of Georgia Marine related field, experience working with public agencies, and use of scientific data in policy and resource management, excellent communication skills, willingness to travel, and perform field work. Resume to: Mark L. Robertson, Director, Florida Keys Initiative, The Nature Conservancy, P.O. Box 4958, Key West, FL 33040. Equal Opportunity Employer.

BIOLoGY

Wesleyan College is seeking two tenure-track ASSISTANT or ASSOCIATE PROFESSORS especially interested in teaching that emphasizes critical thinking, connected learning, and writing as part of a superior liberal arts education. One will have responsibility for teaching a course in another discipline. The position may be in the area of zoology. Ph.D. required; a minimum of five years of teaching experience for associate professor rank. In particular, Wesleyan College invites applications for a full-time commitment to teaching and advising students. Send letter of application, curriculum vitae, transcripts, and three current letters of recommendation by December 15, 1992 to Wesleyan College, 4760 Forsyth Road, Macon, GA 31297. Women and minority candidates are encouraged to apply. Affirmative Action/Equal Opportunity Employer.

BAYLOR COLLEGE OF MEDICINE

HOUSTON, TEXAS

Department of Anesthesiology is inviting applications and nominations for faculty positions at ASSISTANT and ASSOCIATE PROFESSOR levels. Fellowship positions are also available in Cardiovascular Anesthesia. These positions offer excellent opportunities to develop an academic environment in a department with excellent clinical teams and research resources and facilities. We are interested in qualified candidates in general anesthesia, and some positions require cardiovascular or pediatric anesthesia sub-specialty knowledge and experience. Qualified candidates should send curriculum vitae to: William F. Children, M.D., Chairman, Department of Anesthesiology, Baylor College of Medicine, 6650 Fannin, Suite 1003, Houston, TX 77030. Baylor College of Medicine is an Affirmative Action/Equal Opportunity Employer.

MUEHLENBERG COLLEGE

Biology: Two positions, both tenure-eligible, one for department chair. Ph.D. required. Areas of specialization: field botany or comparative physiology. The botanist will manage a green house and 70,000 specimen herbarium. Particular consideration will be given to candidates with transmission and scanning electron microscopy experience. Muhlenberg College is a church-related, selective, liberal arts college located one hour from Philadelphia. To apply, send description of teaching interests, resume, and three letters of reference to: Biology Search Committee, Muhlenberg College, Allentown, PA 18104, by December 4, 1992. An Equal Opportunity Employer, we encourage applications from minority and female candidates.

ENDOWED CHAIR AND DIRECTOR

Program in Environmental Studies

The University of Redlands continues to seek a teach- er/scholar to fill the Hedco endowed chair of Environ- mental Studies. The chairholder will lead a new program that will provide both a B.A. and a B.S. track. Candidates should have demonstrated teaching, program development and administrative skills. An ability to work with faculty across all disciplines is essential. Area of expertise may be in any discipline connected to environmental studies. There is a well equipped GIS laboratory. The University of Redlands in Southern California enrolls 1,500 residential students and 2,200 working adult students. Ph.D. required. Rank and salary negotiable. Position begins August 1, 1994. Send curriculum vitae, research interests, and a list of at least three references to: Dr. James P. Malcolm, Department of Biology, University of Redlands, 1500 University Street, Redlands, CA 92373-0999. File review will begin on January 5, 1993 and applications submitted after this date may not receive full review. The University of Redlands is an equal opportunity employer and encourages applications from women and minorities.

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The expansion of our R&D lab in the Detroit area will give us the environment to continue improving on our already well-respected bonding technology.

To staff this facility we are seeking additional individuals at both the Chemist and Chemical Technologist levels who possess the following qualifications:

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To qualify, you should possess M.S. or Ph.D. in Polymer Science or Polymer Chemistry and 2-10 years' relevant working experience.

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To qualify, you will need 20 hours of college-level Chemistry or Science courses and at least 2 years of laboratory experience.

The success of our product line depends heavily on the talents and dedication of our people. If you have what it takes to do the job, we'll supply you with an excellent compensation and benefits package commensurate with your qualifications and the opportunity to work for a premier global organization. Please send your resume with salary history and requirements to Ms. Marion Witte, Human Resources Specialist, Dept. SM, Essex Specialty Products, Inc., 1135 Broad Street, Clifton, NJ 07015. An equal opportunity employer.

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AQUATIC VERTEBRATE BIOLOGIST

The Department of Biology at the University of Northern Iowa invites applications from individuals with the Ph.D. degree for a tenure-track assistant professor position in Aquatic Vertebrate Biology effective August 1993. Applicants with basic or applied field-oriented research in ecology of aquatic vertebrates are preferred. The person selected will be responsible for developing a research program designed to attract the participation by graduate (M.A.) and undergraduate (B.A. and B.S.) students. Teaching responsibilities may include a course(s) in one's specialty and participation in the general education program. Post-doctoral teaching and/or research experience is preferred. The department expects excellence in both teaching and research. Applicants should submit a curriculum vitae, statement of teaching interests/philosophy, research interests and goals, relevant reprints, copies of graduate and undergraduate transcripts, and three letters of recommendation. The department encourages applications from women, minority persons, Vietnam era veterans and disabled persons. For full consideration application materials should be received by January 15, 1993. Send a detailed letter of application and supporting materials to:

Dr. Robert Seager
Chair, Search Committee
Department of Biology
University of Northern Iowa
Cedar Falls, IA 50614-0421
(Fax No.: 319-273-2893)

THE UNIVERSITY OF NORTHERN IOWA IS AN EQUAL OPPORTUNITY EDUCATOR AND EMPLOYER WITH A COMPREHENSIVE PLAN FOR AFFIRMATIVE ACTION.

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RESEARCH SOLICITATION NOTICE

The United States Environmental Protection Agency's Atmospheric Research and Exposure Assessment Laboratory (AREAL) announces its intent to establish collaborative research relationships by competitive cooperative agreements with non-profit or not-for-profit organizations. The competitive cooperative agreements will require a minimum five percent (5%) cost sharing by these two types of participating organizations with one exception. The exception is that competitive agreements awarded to federal agencies will require a minimum fifty percent (50%) cost sharing agreement. The AREAL anticipates funding multiple agreements with multiple organizations. The aggregate value of these agreements is expected to range from $10-$20 million per year, depending on EPA's Congressional appropriation.

Research organizations are encouraged to submit a written request for the solicitation package if they are interested in, and capable of, conducting national calibrate research in collaboration with AREAL scientists in one or more of the following areas: atmospheric pollutant measurement and monitoring; aerosol and visibility measurement and modeling; atmospheric chemistry; atmospheric modeling; meteorological modeling, emissions research, high performance computing and communications technology research and technology transfer, distributed computing and visualization techniques; and algorithm development for massively parallel architectures; fluid modeling of atmospheric dispersion; climatology; deposition measurement and monitoring; forest assessment; global tropospheric chemistry; integrated environmental/ecosystem assessment; indoor air measurement, monitoring and modeling; human exposure measurement, modeling, and assessment; measurement, modeling, and measurement of air toxic deposition in the Great Lakes basin; source attribution measurement, analysis, and modeling; and development of methods to measure: trace species in indoor and ambient air, air toxics, UVB radiation, mobile source emissions, stationary source emissions, or aerosol technology. No telephone requests for the solicitation package will be accepted. Copies of the solicitation package will be available, in paper or computer diskette (ASCII format) version, on or after November 5, 1992 to all organizations that submit a written request. Written requests for the solicitation package should be mailed to "AREAL Research Solicitation (MD-75), U.S. EPA, RTP, N.C. 27711." Please specify the desired version in the written request. Completed proposals that respond to this solicitation package must be postmarked before, and received at this address on or before, January 15, 1993. Any proposals that are postmarked or received after January 15, 1993 will not be considered. All cooperative agreement proposal packages will be evaluated competitively by expert peer panels. This evaluation will consider scientific merit, organizational capability, the extent and nature of the proposed collaborative relationship with AREAL and/or other Federal laboratories, and relevance to AREAL's mission. Preliminary notification concerning award is expected in April or May 1993.
THE UNIVERSITY OF MASSACHUSETTS AT AMHERST ANNOUACES THE FOLLOWING FACULTY OPENINGS

DIRECTOR OF THE INTERDEPARTMENTAL GRADUATE PROGRAM IN MOLECULAR AND CELLULAR BIOLOGY

We seek a distinguished scientist who will maintain a strong research program while providing intellectual and administrative leadership to a program of 60 faculty members and an equal number of Ph.D. students. Applications accepted until December 15, 1992 or until the position is filled. Please send curriculum vitae and names of 3 references.

BIOCHEMISTRY AND MOLECULAR BIOLOGY
Assistant/Associate Professor, tenure-track. Preference will be given to investigators studying signal transduction using a molecular genetic approach. Applications accepted until December 21, 1992 or until the position is filled. Please send curriculum vitae, personal statement and 3 letters of recommendation.

BIOLOGY DEPARTMENT
Assistant/Associate Professor, tenure-track. Vertebrate physiologist using modern approaches to basic physiological questions. Teaching responsibilities will include upper level animal physiology and graduate courses in area of specialty. Submit application by December 15, 1992, including curriculum vitae, reprints and 3 letters of reference. Assistant Professor, non-tenure track. Neuroendocrinologist with interest in circadian rhythms and/or seasonal influences on reproduction. Teaching responsibility is one course per year in experimental vertebrate endocrinology. This position is funded for a five-year period. Submit application by December 15, 1992, including curriculum vitae, reprints and 3 letters of reference.

CHEMISTRY DEPARTMENT
Assistant Professor, tenure-track. Organic chemistry. Preference will be given to applicants in area of synthetic or bioorganic chemistry. Deadline November 27, 1992.

Salaries will be commensurate with qualifications and experience.

Send replies to Search Coordinator, Room 913L LGRT, University of Massachusetts, Amherst, MA 01003. An Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

DIRECTOR/RESEARCHER
Exercise Physiology—Nutritional Biochemistry

Applications are invited for an individual to head a new research institute within the athletic department of a major southern university. Responsibilities include the design and development of methods for testing nutritional ergogenic aids, analyzing nutrient effects on endurance, performance, injury rate and rehabilitation. Additional responsibilities involve the coordination of University and local, private resources to develop expertise in all aspects of personal performance and optimization, including all technologies presently in existence as well as development of future ones. Salary commensurate with experience. Send resume, cover letter in your own handwriting and current photograph to: Box 26, Science Magazine, Suite 814 1333 H Street, NW, Washington, DC 20005.

CHEMISTRY FACULTY: The Department of Biology and Chemistry of Lake Superior State University invites applications for a tenure-track position commencing Fall 1993. Applicants should have a Ph.D. in chemistry with strengths in analytical chemistry and instrumental analysis and show evidence of potential excellence in teaching. Interest and experience in environmental chemistry is desirable, but not essential. The position may involve teaching courses in general, analytical, and environmental chemistry, and supervision of undergraduate research projects. Rank and salary commensurate with experience.


The Pittsburgh Cancer Institute, a major component of the University of Pittsburgh Medical Center, is interested in recruiting qualified minorities in all areas of cancer research and clinical care. Of special interest are CLINICAL ONCOLOGISTS and POSTDOCTORAL FELLOWS and JUNIOR FACULTY in basic cancer research—especially in the areas of molecular biology, immunology, experimental therapeutics and cell biology. Opportunities are also available for cancer epidemiologists and individuals with expertise in community outreach.

Please send a letter of interest and curriculum vitae to: Dr. Jules Healer, Pittsburgh Cancer Institute, 200 Meyran Avenue, Pittsburgh, PA 15205.

The University of Pittsburgh is an Equal Opportunity Employer.

CHAIRPERSON
CHEMISTRY DEPARTMENT
UNIVERSITY OF MIAMI

The Department of Chemistry solicits applications and nominations for the position of Chair. The candidate is expected to possess a distinguished record of research, teaching, and extramural funding, as well as demonstrated leadership skills in administration, management, and interpersonal relations. In addition to normal academic duties within a department dedicated to excellence in both research and teaching, the responsibilities of the position specifically include the direction of departmental initiatives in research at the interface of chemistry and biology, and interamerican scientific collaboration. The Department consists of 13 faculty and offers Ph.D., M.S., B.S. (with and without ABCS certification), and A.B. degrees.

Inquiries, applications, and nominations should be directed to: Dr. Manuel A. Huerta, Chair, Search Committee, Department of Chemistry, University of Miami, P.O. Box 248101, Coral Gables, FL 33124. The application should include letters of recommendation or names of referees. To be assured of consideration, all materials should be received by December 31, 1992.

The University of Miami is an Equal Opportunity/Affirmative Action Employer and a smoke/drug-free workplace. We do not discriminate on the basis of race, religion, color, sex, age, national origin, or disability. We encourage applications from females, veterans, the disabled, and minority groups.
Airmative encouraged.

The University of Virginia, Department of Biomedical Engineering, invites applications for two tenure-track faculty positions in In Vivo Cellular Engineering (interdisciplinary research in cell functions and technology) and one position in Rehabilitation Engineering. Requirements include a demonstrated record or strong potential for development of funded research, a commitment to BME graduate education, and a Ph.D. in biomedical engineering or equivalent. Affiliated with the School of Engineering and Applied Science and the School of Medicine, the department has 25 faculty and 50 graduate students and offers the M.E., M.S., and Ph.D. in biomedical engineering. Please send curriculum vitae, a brief description of research, up to three reprints, and the names of three references to: Dr. J. S. Lee, Chair, Department of Biomedical Engineering, Box 377, University of Virginia Health Sciences Center, Charlottesville, VA 22908. University of Virginia is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

The Department of Botany, North Carolina State University, invites inquiries from minorities to explore the possibilities of a future entry-level FACULTY POSITION. Qualifications include a Ph.D. degree in Botany or a closely related discipline, research in an area recognized by competitive granting agencies, teaching experience and the desire to teach both undergraduate and graduate students. Send inquiries to: Ernesto D. Seneca, Head, Department of Botany, Box 7612, North Carolina State University, Raleigh, NC 27695-7612.

The Department of Chemistry of Yale University seeks qualified candidates with Ph.D. degree to fill one or more positions as non-ladder LECTURERS in undergraduate chemistry laboratories. Responsibilities include the organization of the course, supervision of teaching assistants, and writing recommendations. The appointment is effective July 1, 1993. Candidates should submit a résumé and three letters of recommendation to: Lecturer Search, Yale University, Sterling Chemistry Laboratory, Box 6666, 125 Prospect Street, New Haven, CT 06511-8118. The deadline for applications is January 15, 1993. Yale University is an Affirmative Action/Equal Opportunity Employer.

Free Product Information Service
Send a letter stating the specifics about your new laboratory and Science will put you in touch with the vendors whose products you will need. Write to: Science New Lab Service Department 1333 H Street, NW Washington, DC 20005

Positions Open

University of Umeå, Sweden, invites applications for a position as Senior Lecturer in Plant Physiology at the Department of Plant Physiology, available July 1, 1993, Reference number 322-2030-90. Candidates should have a distinguished record of research in the area of plant physiology as well as proven experience and qualities in teaching. The appointee is expected to conduct and supervise independent research (75% of duty) and to participate in graduate and undergraduate teaching (25% of duty) at the department. In the evaluation of candidates equal consideration will be paid to documented research achievements and teaching skills.

Applications with curriculum vitae, copies of reprints and preprints and a statement of previous research achievements and teaching skills should be sent to: University of Umeå, S-901 87 Umeå, Sweden.

For further information, write or call: Professor Gunnar Oquist, Department of Plant Physiology, University of Umeå, S-901 87 Umeå, Sweden. Phone: +46-90-165436.

Deadline for applications is December 4, 1992.

Faculty Positions

Department of Biomedical Engineering
University of Virginia

The University of Virginia, Department of Biomedical Engineering, invites applications for two tenure-track faculty positions in In Vivo Cellular Engineering (interdisciplinary research in cell functions and technology) and one position in Rehabilitation Engineering. Requirements include a demonstrated record or strong potential for development of funded research, a commitment to BME graduate education, and a Ph.D. in biomedical engineering or equivalent. Affiliated with the School of Engineering and Applied Science and the School of Medicine, the department has 25 faculty and 50 graduate students and offers the M.E., M.S., and Ph.D. in biomedical engineering. Please send curriculum vitae, a brief description of research, up to three reprints, and the names of three references to: Dr. J. S. Lee, Chair, Department of Biomedical Engineering, Box 377, University of Virginia Health Sciences Center, Charlottesville, VA 22908. University of Virginia is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

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Hybritech Incorporated, a $100 million subsidiary of Fortune 100 Eli Lilly and Company is a recognized leader in the development of in vitro and in vivo products utilizing monoclonal antibody technology. We have immediate and challenging opportunities for two Industrial Postdoctoral Scientists in our San Diego research facility.

One Postdoctoral position will focus on developing unique forms of bispecific monoclonal antibodies using molecular biology and computer modeling technology. The ideal candidate will have earned a Ph.D within the last three years and have experience in molecular biology and mammalian cell culture. Experience with computer modeling is desirable, but not required. The job code for this position is MDS/SM/11-20-92/PDS-MM.

The other position will be responsible for basic research in the area of targeted delivery of positron emitting isotopes. The successful candidate will have experience in organic synthesis, pharmacology, nuclear medicine and radiolabeling of small molecules with PET and other isotopes. The job code for this position is MDS/SM/11-20-92/PDS-CL.

Both Postdoctoral Scientists will be exposed to research in a team-oriented environment while carrying out individual research projects.

Hybritech offers a stimulating work environment and competitive salaries and benefits. Interested individuals should send their resume to: HYBRITECH INCORPORATED, P.O. Box 269006, San Diego, CA 92196-9006. Please include the appropriate job code. Equal Opportunity Employer.

Graduate Fellowships in Animal Biotechnology

The Department of Animal Science and Agricultural Biochemistry at the University of Delaware is seeking highly qualified candidates for USDA National Needs doctoral fellowships in the area of Animal Biotechnology. The awards are for a three year period and provide support in the form of a $15,000 per year stipend plus a tuition scholarship.

The Department has a strong research emphasis on poultry health and physiology. By interfacing with both molecular biologists and experts in animal health and physiology, students receive training in all aspects of disease control and optimization of growth performance of poultry. The goal of the program is to produce graduates who are capable of developing multifaceted strategies involving both classical and molecular approaches to address challenges in animal production.

Eligibility. Citizens or native residents of the United States and its territories. Special consideration will be given to members of underrepresented minority groups, including but not limited to African Americans, Alaskan Natives, American Indians, Mexican Americans, Pacific Islanders, and Puerto Ricans.

Applications must be received by March 15, 1992.

For Information write:

Dr. Jack Gelb, Jr.
Graduate Studies Committee
Department of Animal Science
and Agricultural Biochemistry
040 Townsend Hall
University of Delaware
Newark, DE 19717-1303
(302) 831-2524

The University of Delaware is an equal opportunity employer which encourages applications from minority group members and women.
Founded in 1855, The William Paterson College of New Jersey serves approximately 8,000 undergraduate students through its 31 undergraduate programs. Its graduate enrollment numbers approximately 2,000 students in 15 graduate degree programs. The college maintains a strategic commitment to the goals of excellence, diversity and community.

Unless otherwise indicated, faculty positions are tenure-track at the rank of Assistant Professor. Doctorate required. Salary dependent upon qualifications and experience. Candidates must have a demonstrated commitment to teaching, research and scholarship.

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Anthropology Program
Dr. Anita Barrow, Director

Biological/Physical Anthropology. Teach at the undergraduate and Master’s levels. Geographical specialty open. Demonstrated excellence in teaching and active research required.

School of Science and Health

Department of Biology
Dr. Edith Wallace, Chair

Terrestrial or Freshwater Ecology. Teach ecology courses at the undergraduate (majors and non-majors) and graduate (Master’s degree) levels, establish an active field-oriented research program involving students, and teach in multi-disciplinary Environmental Science program. Ph.D. in ecology and strong quantitative skills required; post-doctoral teaching and/or research experience preferred. Please include a statement of teaching and research interests, and selected reprints with application.

Department of Chemistry and Physics
Dr. G. M. Sharma, Chair

Analytical Chemistry. Primary responsibility to develop and teach ACS-approved analytical chemistry courses, and participate in our multi-disciplinary Environmental Science program. Ph.D. in analytical chemistry, and experience in use and development of modern instruments for chemical analysis required. Ability to secure grant funds and develop vigorous undergraduate research programs a strong plus. Please forward a research proposal with application.

Physics. Teach introductory courses at the undergraduate level and pursue an active research program. Dedication to teaching introductory courses and ability to pursue research required. Recent Ph.D. in physics with post-doctoral experience preferred. Please include a list of published papers and letter describing plans for teaching and research with application.

William Paterson College, on a 250-acre suburban campus 20 miles from New York City, is an accredited state college. WPC is an affirmative action/equal opportunity employer.

Please address all applications with vita and names, addresses and phone numbers of three (3) references to the appropriate Chair by December 4, 1992 to:

WILLIAM PATerson COLLEGE
Drawer SS
Wayne, NJ 07470

AMERICAN ASSOCIATION FOR CANCER RESEARCH

The American Association for Cancer Research (AACR) is a professional society of over 8,000 scientists and physicians involved in cancer research. Members in the AACR enjoy

- subscriptions to the journals Cancer Research, Cell Growth & Differentiation (CG&D), and Cancer Epidemiology, Biomarkers & Prevention, at reduced member rates
- early notification of and reduced registration rates at the AACR Annual Meeting and Special Conferences
- Employment Register, Directory of Members, public education activities, and many other benefits

Special programs to provide enhanced career development opportunities for minority scientists include

- Mentorship Program
- Travel Awards to Scientific Meetings

American Association for Cancer Research
Public Ledger Building
620 Chestnut Street, Suite 816
Philadelphia, PA 19106-3483
Telephone: (215) 440-9300
FAX: (215) 440-9313

Director
Cell Adhesion/Extracellular Matrix Biology Laboratory

The University of Alabama at Birmingham (UAB) has committed substantial financial and space resources to establish a major new Laboratory to study the role of cell adhesion molecules and the extracellular matrix as they relate to fundamental questions in biology. This will be a multi-disciplinary Laboratory which will interact with a significant number of established investigators in several UAB departments including the Department of Biochemistry and the Department of Medicine’s divisions of Oncology and Clinical Immunology and Rheumatology. The Laboratory will occupy 9,000 square feet of newly renovated Laboratory and office space and accommodate up to five (5) full-time established investigators and their support staff. The duties of the Director will be to lead the recruitment of other established investigators to the Laboratory, coordinate research activities within the Laboratory and between it and other extracellular matrix research personnel within The University of Alabama at Birmingham. This is a tenured position and will include an appointment as a Senior Scientist in the UAB Arthritis and Musculoskeletal Diseases Center. Qualified candidates will hold a PhD and/or a MD degree, have a successful history of competing at the national level for peer-reviewed funding and publication of the results of their research, and have demonstrated scientific leadership capabilities.

UAB is a rapidly growing institution with many opportunities in medical research at the fundamental science level, as well as opportunities for interaction between basic scientists and clinical investigators. Birmingham has a comfortable climate and offers an affordable and cosmopolitan lifestyle. UAB is an Affirmative Action/Equal Opportunity Employer.

Send curriculum vitae with cover letter to;

John D. Mountz, MD, PhD
Chairman
Search Committee
LHR Building, Room 405
The University of Alabama at Birmingham
Birmingham, AL 35294-0007
**Postdoctoral Scientist**

**Bone Cell Biology**

SmithKline Beecham Pharmaceuticals, a world leader in pharmaceutical research, has an exciting opportunity available for a Postdoctoral Scientist to join the Bone Biology Unit. As part of a developing research group, the selected individual will study molecules involved in osteoblast proliferation, differentiation and function. The research will involve a multi-disciplinary approach using both cellular and molecular techniques and in vitro and in vivo models of bone cell function.

Qualified candidates will have a Ph.D. in Cell Biology or a related discipline. It is desirable to have a working knowledge of bone biology, experience in molecular-biology techniques and good communication skills. Publications in peer-reviewed journals is considered an advantage.

Our state-of-the-art research facility is located in suburban Philadelphia, near Valley Forge, PA. We offer a competitive compensation/benefits/relocation package and a stimulating team environment. For confidential consideration, send your resume to: Senior Employment Administrator, #H0520, SmithKline Beecham Pharmaceuticals, PO Box 1539, King of Prussia, PA 19406. We are an Equal Opportunity Employer, M/F/D/V.

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**Career Opportunities**

**In Bio-Science**

**Oncogene Science** is expanding its research effort in small molecule drug discovery in a variety of therapeutic areas. We are actively seeking qualified Ph.D. level scientists interested in joining our team during this exciting and challenging period of growth. We are particularly interested in scientists with experience in the following areas:

**Gene Transcription**

Scientists with three to six years of postdoctoral experience in the analysis of eukaryotic gene transcription are invited to apply for positions in our Pharmaceutical Division. We have established an industry-leading approach for identification of new drug candidates which function by altering the transcription of physiologically important genes. We are currently establishing new teams for the analysis of specific genes in several new therapeutic areas.

**Atherosclerosis**

Two positions are currently available in our cardiovascular disease group:

**Project Manager:** This position requires greater than five years of postdoctoral experience in the area of lipoprotein biochemistry or molecular biology, superb organizational and communication skills, and proven managerial skills. Industry experience is preferred but not essential.

**Research Scientist:** This position requires two to five years of postdoctoral experience in the regulation of lipid metabolism, growth factor activity, hepatocyte function or molecular genetics. Experience directly relevant to cardiovascular disease is preferred.

**Analytical Chemist/Natural Products**

Two positions require two to five years of postdoctoral experience in the isolation and identification of novel lead compounds from natural product extracts and analytical chemistry skills.

Oncogene Science offers an excellent compensation and benefits package along with unlimited growth potential. Qualified candidates may send their resumes, including references, to:

Oncogene Science, Inc.
106 Charles Lindbergh Blvd.
Uniondale, NY 11553, Attn: CC.
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ILRAD was established in 1973 in Nairobi, Kenya as one of the research Centres of the Consultative Group on International Agricultural Research (CGIAR), a consortium of donor agencies which now support 124 centres worldwide. ILRAD has a global mandate to work on the improved control of livestock diseases which seriously limit world food production and are impediments to sustainable agriculture. It applies the best of modern science in pursuit of this goal. ILRAD is a leader in the field of molecular parasitology and its application in vaccine development and has a substantial interest in the genetic basis of resistance to diseases. Presently, its research program is focused on trypanosomiasis and serious tick borne hemoprotozoan diseases such as theileriosis. ILRAD envisages an expanding range of interests to improve the productivity of livestock in developing nations.

ILRAD occupies a modern complex of research laboratories and supporting units at Kabele. The Laboratory currently employs approximately 60 scientists and 350 support staff. It is governed by an international Board of Trustees consisting of 12 members.

Applicants are expected to have demonstrated capacity for dynamic leadership, innovative research, strategic planning, effective administration, and a comprehensive understanding of animal diseases and their control especially those pertinent to ILRAD's interests. International experience in a developing country is highly desirable. The position requires the ability to interact with international donor agencies, national governments, commercial organizations, and other laboratories in the CGIAR system. Candidates must be familiar with infectious diseases, biotechnology, immunology, molecular biology, genetics, epidemiology, the role of livestock in sustainable farming systems, and methods of technology transfer.

The position becomes available in April of 1994 upon the retirement of the incumbent Director General and will be for an initial five-year term that is renewable. Salary, and other emoluments, will be negotiated and will be consistent with similar positions in the CGIAR system. Deadline for receipt of applications is February 28, 1993. Applicants should make arrangements for three letters of reference to be sent to the Chair of the Board.

For further information contact: Dr. N. Ole Nielsen, Chair, Board of Trustees, ILRAD, c/o Ontario Veterinary College, University of Guelph, Guelph, Ontario, Canada N1G 2W1. 519-827-8800, ext. 4417. FAX: 519-837-3230.
THE MASSACHUSETTS GENERAL HOSPITAL (MGH)

The MGH/NIH Postdoctoral Training Programs are seeking qualified candidates for the following research training opportunities: Basic Neuroscience for Neurologists and Neurosurgeons; Basic Science Research Training for Anesthetists; Burns and Trauma; Cardiology Research; Cell Structure and Function in Nephrology; Connective Tissue Structure, Function and Disease; Dermatology; Digestive Diseases; Endocrinology and Diabetes; Immunology & Tumors; Infectious Disease; NMRI Research; Pulmonary Pathophysiology; Radiological Science; Reproductive and Developmental Biology.

Additionally, please note that the MGH is very committed to providing training opportunities for qualified individuals currently underrepresented in science, namely minorities and women. Please contact Diane C. Gilbert, Research Affairs, MGH, Fruit St., Boston, MA 02114-2696.

THE HUMAN GENOME PROJECT TRAINING OPPORTUNITIES FOR MINORITIES
NATIONAL CENTER FOR HUMAN GENOME RESEARCH
NATIONAL INSTITUTES OF HEALTH

The Human Genome Project is opening up new ways of doing science in the 21st century. We are looking for bright and ambitious graduate students and faculty who are interested in developing the expertise needed to be part of this scientific adventure. For more information about training opportunities, please contact:

Bettie J. Graham, Ph.D.
National Center for Human Genome Research
National Institutes of Health
Building 38A, Room 610
9000 Rockville Pike
Bethesda, MD 20892
(301) 496-7531
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The Department of Biochemistry, University of Bridgeport has immediate openings for adjunct faculty in human nutrition. The department focuses on the understanding of human nutrition, and its role in health and disease, as well as the pathophysiological changes in nutritional disorders. Excellence in teaching is emphasized.
Programs are beginning on both east and west coasts. Applicants must possess a master's degree (Ph.D. preferred) in nutrition, physiology, biochemistry or a related field.
To apply send current curriculum vitae to:
Dr. R. G. Lanfranchi
Department of Human Nutrition
University of Bridgeport
301 S. Street
Bridgeport, CT 06601
Equal Opportunity Employer.

TENURE-TRACK FACULTY POSITION
The Department of Biochemistry, University of Utah, has a tenure-track Ph.D. faculty position in biochemistry. Applicants should have strong physical science or engineering background with demonstrated experience in structure biology, molecular-level biochemistry, and the general application of biochemistry to the life sciences. The curriculum vitae names of three references, and brief career goals/ objectives statement should be sent to: Dr. R. G. Lanfranchi, Chair, Department of Biochemistry, 2480 MEB, University of Utah, 158 South 200 East, Salt Lake City, UT 84112, Telephone: (801) 581-8528, FAX: (801) 585-5361, by February 15, 1993, or until the position is filled. The University is an affirmative action/equal opportunity employer. Applications from women and minority groups are encouraged. The position will include teaching duties and research responsibilities.

BIOLOGY
The Biology Department at Swarthmore College is recruiting a new tenure-track position in biochemistry. Applicants should have a strong background in biochemistry and be able to teach both introductory and advanced courses in biochemistry. The position is available immediately. Submit a letter of application, curriculum vitae, and three letters of recommendation to:
Dr. J. E. E. Skokie
Department of Biology
Swarthmore College
Hood Hall
Swarthmore, PA 19081

BIOMEDICAL SCIENCE
The Department of Biology at Swarthmore College seeks two biomedical scientists for a faculty position in biochemistry. Applicants should have research interests in areas related to disease, with a strong background in biochemistry. The position is available immediately. Submit a letter of application, curriculum vitae, and three letters of recommendation to:
Dr. Richard M. May
Department of Biology
Swarthmore College
Swarthmore, PA 19081

WOMEN AND MINORITY CANDIDATES ARE ENCOURAGED TO APPLY.


COGNITIVE NEUROSCIENCE: The Department of Psychology at Carnegie Mellon University invites applications from cognitive neuroscientists for a FACULTY POSITION preferably at, but not necessarily limiting to, the rank of Assistant Professor. The successful applicant at Carnegie Mellon is characterized by attempts to arrive at cognitive theories derived from consideration of the computational properties of neural circuitry, from patterns of damage from lesion and disease, and from the postmortem development of the brain. A variety of different techniques ranging from connectionist modeling to animal studies and human cognitive neuroscience. Opportunities are available in a variety of types of neuroimaging are also available. This hiring is part of a plan to make Cognitive Neuroscience an independent "track" within the department. Please send curriculum vitae, statement of research interests, representative papers, and three letters of recommendation to: Cognitive Neuroscience Search Committee, Department of Psychology, Carnegie Mellon University, Pittsburgh, PA 15213-3890. Application deadline: 1 February 1993. Affirmative Action/Equal Opportunity Employer.

THE SCHOOL FOR FIELD STUDIES
in conjunction with Northeastern University
SUMMER FACULTY needed for the following programs which run June through August 1993: Marine Mammals—Pacific Northwest; Tropical River Ecol- ogy—Belize; Ethnobotany—Equador; Landscape Ecol- ogy—S. Bock, North America; Rainforest—North America. Full-time positions available for Conservation Biologists and Resource Management profession- als. Applicants must have M.S., Ph.D., or equivalent degree. Minimum field and research experience in the region, two years of teaching at the undergraduate level, leadership ability, and the ability to live in the field with up to 12 other grad students in an intensive teaching and research environment. TO APPLY: Send curriculum vitae, a detailed letter explaining skills and experience, to: SFS SAT Search, 16 Broadway, Beverly, MA 01915. FAX: 508-927- 5127; Telephone: 508-927-7777. Deadline: ASAP.

POSTDOCTORAL POSITION
Available immediately for Ph.D. or M.D. in molecular immunology. Research will involve studies on cellular and molecular mechanisms of human B cell differentiation. This area includes (1) biochemical purification and molecular cloning of various factors; and (2) regulation of lymphokine gene expression. Immunology training is not required. The interested candidate is encouraged to send curriculum vitae to:
Dr. Y. S. Choi
Director, Laboratory of Cellular Immunology
Alton渲染ed Optimization
1520 Jefferson Highway
New Orleans, LA 70121
An Equal Opportunity Employer.

POSTDOCTORAL POSITION
available to study repair of radiation-induced DNA damage in human cells. Primary research involves characterization of human enzymes that repair radiation- and bleomycin-induced DNA strand breaks (see Nucleic Acids Research 20:2575- 2580, 1992). Other research areas include mechanistic studies of DNA repair inhibitors, modulation of cellular DNA repair by gene expression vectors, and the role of DNA synthesis in cellular resistance. Experience in DNA replication, DNA topoisomerases, recombination, and RNA processing is required. Interested individuals should send curriculum vitae and names of three references to: Dr. Timothy J. Jorgensen, Radiology of Medicine, Georgetown University Medical Center, 3800 Reserv- vor Road, N.W., Washington, D.C. 20007. Georgetown University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Available immediately for the neurobiological analysis of sensory function. Main emphasis involves the study of signal transduction mechanisms underlying synaptic responses in the mammalian auditory system utilizing patch-clamp techniques. Immunocytochemical and in situ hybridization techniques are also employed. Prefer exposure with patch-clamp recording techniques. Salary $27,000. Send curriculum vitae and names of references to: Dr. Scott Herson, Indiana University School of Medicine, Center for Health Research, Ball State University, Muncie, IN 47306. Equal Opportunity/ Affirmative Action Employer.

RESEARCH ASSOCIATE
Postdoctoral position available immediately for study- ing image formation mechanisms in STM of biological molecules. This is a collaboration between the Depart- ment of Physics and Astronomy and Los Alamos National Laboratory, and may require frequent travel to LANL. Send curriculum vitae, research interests and ad- dresses of three references by December 18, 1992, to: Human Resources, University of New Mexico, 1717 Roma, NE, Albuquerque, NM 87131. Reference your curriculum vitae with Employment Requisition # 1104-92A. The University of New Mexico is an Affirma- tive Action/Equal Opportunity Employer.

YORK UNIVERSITY
Department of Physical Education
Graduate Program in Exercise and Health Science
Faculty of Pure and Applied Science
Applications are invited for a tenure-track appointment in exercise physiology with an emphasis on bio- chemistry and/or health. A Ph.D. degree is required. Postdoctoral experience, publications in refereed journals and the ability to generate external funding will be given a high priority. Duties will include graduate and under- graduate teaching, graduate student supervision and the development of a productive research program. York University is implementing a policy of employment equity, including affirmative action/disability qualification. Women and minorities are invited to apply. Salary will be commensurate with experience. In accordance with Canadian Immig- ration requirements, preference will be given to Canadian citizens and permanent residents of Canada. Applicants should send curriculum vitae, a cover letter stating future research goals, and the names and addresses of at least three persons who may act as references to: Dr. David A. Hood, Chair, Exercise Physiology/Biochemistry Search Committee, Department of Physical Educa- tion, York University, 4700 Keele Street, North York, Ontario, M3J 1P3 by February 1, 1993. Duties commence July 1, 1993 subject to budgetary approval.

ASSISTANT PROFESSOR, MOLECULAR BI- OLOGY: Tenure-track position, Fall 1993 at John Carroll University, a private Catholic, comprehensive university, offering B.S., M.S. and M.A. degrees. Candi- dates should be able to teach introductory biology, genetics, molecular genetics, their specialty and have experience in DNA molecular methods. Area of expertise is open, especially interested in population genetics, molecular genetics. Primary responsibility is teaching; academic counseling and research activity are expected. Submit a letter of application, curriculum vitae, state- ments of teaching and research interests, start-up costs, and three letters of reference by February 15, 1993 to: E.J. Skokie, Department of Biology, John Carroll University, University Heights, OH 44118. An Equal Opportunity/Affirmative Action Employer; women and mi- norities especially encouraged to apply.

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The National Cancer Institute’s Frederick Cancer Research and Development Center (NCI-FCRDC) has developed an international reputation in biomedical research. The reason is simple. Excellent resources and commitment.

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Darwin J. Prokop, M.D., Ph.D., Director;
Alcohol Research Center,
Emanuel Rubin, M.D., Director

Thomas Jefferson University has established a flexible entry program for graduate studies in biochemistry and molecular biology, molecular genetics, immunology, microbiology and molecular virology, molecular pharmacology and structural biology and pathology and cell biology through several departmental and interdepartmental programs. In the first year, students will take a common core curriculum consisting of courses in biochemistry, molecular biology and cell biology, followed by specialized courses in their particular area of concentration. After performing research rotations in three laboratories, students will choose their thesis advisor and the discipline for the Ph.D. degree.

Students accepted into the program will be provided with full financial support including tuition and a competitive stipend. For interested and qualified students, an M.D./Ph.D. program is available.

For further information regarding September 1993 entrance, call or write:

Ms. Jessie Pervall
Admissions Coordinator
College of Graduate Studies
Thomas Jefferson University
1020 Locust Street
Philadelphia, PA 19107-6799
(215)955-4400

Yale UNIVERSITY

The Department of Biology at Yale University is seeking candidates for two tenured faculty positions: one in the field of Plant Molecular Genetics and one in the field of Neuron Growth & Synaptogenesis. The successful applicant for either position is expected to conduct a vigorous research program, to have a proven record in attracting grant support, and to have a proven capacity and interest in teaching at the undergraduate and graduate levels.

Plant Molecular Biologist

Applications are invited from individuals using both classical and molecular approaches to study plant genetics.

Please send curriculum vitae, description of research interests and the names and addresses of at least three references by January 15, 1993 to:

Plant Molecular Genetics Search Committee
c/o Chair, Department of Biology
Yale University
P.O. Box 6666
New Haven, CT 06511-8112

Developmental Neurobiologist

Applications are invited from individuals using anatomical, physiological, genetic and/or molecular approaches to the development of neuronal morphology and connectivity.

Please send curriculum vitae, description of research interests and the names and addresses of at least three references by January 15, 1993 to:

Neuron Growth & Synaptogenesis Committee
c/o Chair, Department of Biology
Yale University
P.O. Box 6666
New Haven, CT 06511-8112

Yale University is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are especially urged to apply.
Our Radiopharmaceutical Research and Development organization, a major contributor to a new venture between Du Pont and Merck, is committed to improving patient diagnosis and treatment through quality products and services that expand the advantages of radiopharmaceuticals. This organization enjoys a unique culture where challenge, creativity and solutions are all part of our vision.

**RESEARCH PHARMACOLOGIST**

As part of our Pharmacology team, you will be responsible for the design, execution and reporting of preclinical animal studies to document the efficacy and safety of novel radiopharmaceuticals used for the diagnosis of cardiovascular and CNS diseases. Our Research Pharmacologist participates in the definition of research program directions and represents the company at scientific meetings and customer functions. In addition, this position is responsible for supervising a small research laboratory.

A Ph.D. in Pharmacology, Physiology or a related discipline and 5-8 years of experience are required.

We offer a competitive compensation package and a full range of benefits. Qualified applicants should send a resume to: Human Resources Dept., The Du Pont Merck Pharmaceutical Company, 331 Treble Cove Road, North Billerica, MA 01862. An Equal Opportunity Employer, M/F/D/V.
BIOPHYSICAL CHEMISTRY POSTDOCTORAL POSITION. The interactions of prosthetic groups and ligands with regulatory proteins, enzymes and visual pigments are being studied by Raman spectroscopy employed postdoctoral candidates in a state-of-the-art equipped lab. Applicants should have a strong background in biophysics and/or biochemistry. Send curriculum vitae and three letters of recommendation to: Professor Richard Calhoun, Physics-Department, City College of New York, New York, NY 10031. An Equal Opportunity Employer.

POSTDOCTORAL POSITION
Fred Hutchinson Cancer Research Center

A postdoctoral position is available to do basic re- search in human molecular immunology and molecular genetics. Options for study include structural and functional analysis of newly discovered genes found within the MHC and functional studies of previously characterized monoclonal class I antigens (PNAS 89:26699, PNAS 89:3947). Seattle and the surrounding area provide an exceptional living environment and the Hutchinson Center provides an outstanding scientific environment. The position is funded by the NIH and will be an excellent and challenging competitive opportunity. Funding is available for two years with the possibility of extension. Applicants should have a Ph.D. and experience in molecular biology. Please send curriculum vitae, a summary of your research experience and the names of three references to: Daniel E. Veldhuis, Department of Microbiology & Molecular Genetics, College of Medicine, University of California, Irvine, CA 92717-4028. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION
In molecular genetics

Send curriculum vitae and three names of references to: Dr. Robert L. Juliano, Department of Pharmacology, SUNY, Upstate Medical Center, Box 81000, Syracuse, NY 13210. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Reproductive Biology Research Training Grant

Available immediately. Interdisciplinary training with faculty members, Laboratory of Human Reproduction and Reproductive Biology. Recent Ph.D.'s with liberal arts, medical, agricultural, or veterinary science background and demonstrated performance in animal reproductive biology. Only U.S. citizens or permanent residents eligible. Send resume, summary of research interests, and names of at least three references to: Dr. John D. Biggers, Harvard Medical School, 240 Longwood Avenue, Boston, MA 02115. An Equal Opportunity/Affirmative Action Employer.

AMERICAN MUSEUM OF NATURAL HISTORY

FELLOWSHIPS IN BIOLOGY AND MATHEMATICAL BIOLOGY

The Program in Mathematics and Molecular Biology has graduate and postdoctoral fellowship support available. Current topics in the Program include geometry, topology, and sequence analysis of DNA, the structure of RNA, and mapping functions and algorithms for DNA and protein structure prediction. Other areas will be considered. Fellowships can be held at any university or college in the United States. Awards made assuming continuation of funding. Deadline for Applications: March 1, 1993. Women and minorities are encouraged to apply. PMMB, 103 Donner Lab, University of California, Berkeley, CA 94720. E-mail: nyvja@violet.berkeley.edu.

POSTDOCTORAL POSITION
In soil hydrology or soil biogeochemistry

A position is available to study landscape-level variations in hydrologic losses and transformations of different forms of nitrogen from soils. The project is part of a larger effort to understand and model fluxes and transformation of N in a mixed agricultural/forested landscape. Experience with soil hydrology and lysimeters is desirable. Please send cover letter, curriculum vitae and three letters of recommendation to: Dr. Lars O. Hedlin and Dr. G. Philip Robertson, W. K. Kellogg Biological Station, Michigan State University, Hickory Corners, MI 49059. An Equal Opportunity/Affirmative Action/Equal Employment Institution.

POSTDOCTORAL POSITIONS
In RNA-protein recognition and RNA structure. Our laboratory uses biochemical, biophysical, and biological methods to identify determinants of sequence-specific RNA recognition, particularly on small non-coding RNA molecules. Projects include determination of peptide structure and prediction of RNA tertiary structure. Applicants should send curriculum vitae, names and addresses of three references, and a one-paragraph description of research interests to: Alan Frankel, Department of Biochemistry and Biophysics, Gladstone Institute of Virology and Immunology, UCSF, PO Box 419100, San Francisco, CA 94114.

POSTDOCTORAL POSITIONS
In molecular genetics available immediately to study molecular aspects of the fungus Candida albicans. Projects include the mechanisms of differentiation and pathogen- esis of the organism and the structure/function and molecular interactions of the fungal specific translation elongation factor three. The candidate should be experienced in molecular genetics techniques and biochemistry, experience in yeast molecular genetics desirable. Send curriculum vitae and names of three individuals to be contacted for reference. Associate Professor Alan H. Aman, Department of Microbiology & Molecular Genetics, College of Medicine, University of California, Irvine, CA 92717-4028. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL NIH FELLOWSHIP
In molecular and cellular biology

Send curriculum vitae and a letter of recommendation by single gonadal cells. Equal Opportunity Employer. Please send cover letter and curriculum vitae to: Dr. J. D. Veldhuis, Box 1249, Department of Internal Medicine, University of Virginia Health Sciences Center, Charlottesville, VA 22908.

POSTDOCTORAL POSITION
In soil hydrology or soil biogeochemistry

A position is available to study landscape-level variations in hydrologic losses and transformations of different forms of nitrogen from soils. The project is part of a larger effort to understand and model fluxes and transformation of N in a mixed agricultural/forested landscape. Experience with soil hydrology and lysimeters is desirable. Please send cover letter, curriculum vitae and three letters of recommendation to: Dr. Lars O. Hedlin and Dr. G. Philip Robertson, W. K. Kellogg Biological Station, Michigan State University, Hickory Corners, MI 49059. An Equal Opportunity/Affirmative Action/Equal Employment Institution.

POSTDOCTORAL POSITION
In soil hydrology or soil biogeochemistry

A position is available to study landscape-level variations in hydrologic losses and transformations of different forms of nitrogen from soils. The project is part of a larger effort to understand and model fluxes and transformation of N in a mixed agricultural/forested landscape. Experience with soil hydrology and lysimeters is desirable. Please send cover letter, curriculum vitae and three letters of recommendation to: Dr. Lars O. Hedlin and Dr. G. Philip Robertson, W. K. Kellogg Biological Station, Michigan State University, Hickory Corners, MI 49059. An Equal Opportunity/Affirmative Action/Equal Employment Institution.
**Assistant Research Scientist**

We currently have a Post Doctoral position available in the laboratory of Dr. Robert Boorstein to study molecular biology and chemistry of DNA damage and DNA repair. You’ll participate in the characterization of newly developed DNA repair mutants and in understanding the role of DNA repair enzymes and cell cycle genes in preventing mutagenesis and carcinogenesis.

Experience in biochemistry, chemistry, or molecular biology is desirable. Salary is competitive.

Please send your C.V. to Ms. Singh, Human Resources Dept., NYU Medical Center, 550 First Avenue, New York, NY 10016. EOE, M/F.

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**Vice Chancellor for Research**

University of Massachusetts Medical Center

The University of Massachusetts Medical Center invites applications for the newly established position of Vice Chancellor for Research. We seek candidates with outstanding scientific credentials who will make a strong commitment to facilitating the continued development of basic and clinical research programs, both on the University of Massachusetts Medical School campus and between our Medical Center investigators and the private sector. The successful candidate will be appointed to the faculty in a basic science or clinical department. Continued pursuit of an active research program is encouraged and supported.

The University of Massachusetts Medical Center has a faculty of internationally recognized investigators actively involved in biomedical research. A broad spectrum of investigator-initiated research grants as well as several training grants and program projects supports research training of graduate students, M.D./Ph.D., students, postdoctoral and clinical fellows.

The Vice Chancellor for Research, reporting directly to the Chancellor, will have line responsibility for research administration and technology transfer and will have a key role in research development. The specific responsibilities of the Vice Chancellor for Research include: 1) serving as the representative of and advocate for the research community by providing advice and consultation to the Chancellor, Dean, Academic Chairs and Faculty on policy that will enhance the institutional research mission; 2) representing the research community in matters pertinent to local, state and federal research-related issues; 3) facilitating development of program projects and other consortium research funding opportunities between and among basic and clinical scientists; 4) working with individual investigators and the Development Office to facilitate initiatives for funding of basic and clinical research; 5) chairing the Scientific Council, which represents basic scientists and clinical investigators in each principal discipline at the University of Massachusetts Medical Center; and 6) overseeing the Office of Research Administration and the Office of Technology Transfer.

Please send curriculum vitae to Dr. Gary S. Stein, Chair, Vice Chancellor for Research Committee, Department of Cell Biology, University of Massachusetts Medical Center, 55 Lake Avenue North, Worcester, MA 01655.

The University of Massachusetts Medical Center is an Equal Opportunity/Affirmative Action Employer; women and minorities are particularly encouraged to apply.

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**RESEARCH ASSOCIATES**

**Immunology**

Join an exciting private biotechnology company located in the San Francisco Bay Area which is pioneering the human therapeutic applications of gene targeting and related technologies. Experienced RAs required for the following positions:

**Research Associate in Molecular Immunology** - Essential functions include molecular and cellular analysis of genetically modified T lymphocytes; purification and culture of T lymphocytes; introduction of genes into mammalian cells; analysis of cell surface receptors by flow cytometry; cytokine and cytotoxicity assays; immunoprecipitation, immunoblotting and related biochemical techniques. Experience with T lymphocytes essential, molecular biology desirable. B.S./B.A. plus 3-5 years related laboratory experience required.

**Research Associate in Experimental Immunobiology** - Essential functions include analysis of lymphocyte function in vitro and in vivo; proliferation, cytokine and cytotoxicity assays; evaluation of immune responses to tumor and viral antigens in animal models; tissue culture. Experience with T lymphocytes (human or rodent) essential; experimental tumor immunology highly desirable. B.S./B.A. plus 3-5 years experience in experimental cellular immunology required.

This is an exciting opportunity for a person willing to contribute energy, flexibility, and initiative to a successful, rapidly-growing company committed to developing novel therapies for the treatment of serious human disease. We offer a competitive salary, excellent benefits, and equity participation. For immediate consideration send your resume to: Paula Bogard (11.3.3.), Cell Genesys, 322 Lakeside Dr., Foster City, CA 94404. An equal opportunity employer.
Desert Research Institute (DRI) is actively seeking employment inquiries from recent minority college graduates and scientists currently active in such environmental research areas as:

- Geosciences
- Biology
- Hydrology
- GIS/Remote Sensing
- Atmospheric Physics
- Soil Science
- Chemistry
- Archaeology
- Anthropology
- Ecology

As an international environmental research organization, DRI is a statewide division of the University and Community College System of Nevada. DRI is engaged in balanced environmental research for effective management of the earth’s natural resources.

For more information, please contact:

Recruitment Office
Desert Research Institute
University and Community College System of Nevada
P.O. Box 19040
Las Vegas, NV 89132-0040

AA/EOE

The California Coastal Commission, a state planning and regulatory agency, is seeking an ecologist to work on a long-term marine resource mitigation project. The project, which is a requirement of the Commission’s permit for the San Onofre nuclear power plant, involves designing, constructing, and monitoring the restoration of 150 acres of southern California wetlands and the creation of 300 acres of artificial reef. Southern California Edison Company, the power plant operator, is responsible for the design and construction work; the Commission is responsible for monitoring and evaluating the project.

The ecologist will work on an interdisciplinary team which designs the mitigation project, monitors its performance, and evaluates its effectiveness. Specific responsibilities include designing a long-term sampling program, evaluating contractor reports, providing advice on scientific issues, and working with the Coastal Commission, Southern California Edison, and a scientific advisory panel to achieve the project’s objectives. The ecologist could work either under a long-term contract or a shorter-term post-doctoral assignment.

A masters degree or a doctorate in marine biology, ecology, or a related field is required. Preference will be given to candidates with post-doctoral or professional experience in wetland ecology and restoration and with strong analytical and statistical skills.

We offer competitive salary, excellent benefits, and an attractive working environment in downtown San Francisco. Send resume or curriculum vitae to Susan Hansch, California Coastal Commission, 45 Fremont Street, Suite 2000, San Francisco, California 94105.

Minorities and women are strongly encouraged to apply.

The University of Connecticut
Health Center

A Strong Commitment to Minority Graduate Education

In pursuit of its goal of promoting diversity within its student body and increasing the number of basic scientists from traditionally underrepresented groups, the University of Connecticut Health Center invites minority students with an interest in graduate education in the biomedical sciences to join us. The Graduate School at the Health Center is a division of the University of Connecticut Graduate School. The University of Connecticut Health Center is located in Farmington, Connecticut, just west of Hartford, midway between Boston and New York.

Programs leading to the Ph.D. degree are offered in the following areas:

- Cell Biology
- Molecular Biology and Biochemistry
- Developmental Biology
- Neuroscience
- Immunology
- Oral Biology
- Pharmacology and Cell & Molecular Toxicology

Programs leading to the Master's degree are offered in:

- Public Health
- Dental Science

Combined degrees including MD/Ph.D., DMD/Ph.D., MD/MPH or DMD/MPH are available through programs jointly administered by the Graduate School and the Schools of Medicine or Dental Medicine.

Undergraduates are invited to apply for summer research internships available at the Health Center. Stipends and housing are available.

For further information contact:

Office of Minority Student Affairs or,
Graduate Student Affairs Office AG039
University of Connecticut Health Center
Farmington, Connecticut 06030
(203) 679-3483 or (203) 679-3150

* Applied Ocean Physics & Engineering
* Biology
* Marine Chemistry & Geochemistry
* Marine Geology & Geophysics
* Marine Paleoceanography

Applications are invited from new or recent doctorates in science or engineering with interests in physical oceanography, meteorology, marine chemistry, marine geology and geophysics, biological oceanography, or applied ocean physics and engineering. Recipients of awards are selected on a competitive basis, with primary emphasis placed on research promise.

* Marine Policy and Ocean Management

Research fellowships are offered in the social sciences or natural sciences with emphasis on economics and law. Topics of special current interest include marine biological diversity, marine reserves, sea-level change, advanced marine technologies, historic shipwrecks, and Arctic affairs. Other research interests also may be appropriate.

Fellowships are awarded for one year (extendable up to two years in special circumstances) with a stipend of $34,500 plus group health insurance and a modest research budget. Recipients are encouraged to pursue their own research interests independently or in association with resident staff. Completed applications must be received by January 15, 1993 for the 1993-94 awards. Awards will be announced in March. Write for application forms to: Dean of Graduate Studies, P.O. Box 5, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts 02543.

An equal opportunity/affirmative action employer.

Postdoctoral Fellowships at the Woods Hole Oceanographic Institution
DIRECTOR
NATIONAL CENTER FOR RESEARCH RESOURCES,
NATIONAL INSTITUTES OF HEALTH

The National Center for Research Resources (NCRR) is seeking applicants for the position of Director, National Center for Research Resources. This position is located in Bethesda, Maryland, and is a permanent full-time position with a salary range of $90,000 to $112,100 per annum commensurate with qualifications. Physicians may be eligible for Physician Comparability Allowance ranging with $5,000 to $20,000 per year.

A recruitment bonus of up to 25 percent of base pay may be available to a non-federal selectee for this position.

A relocation bonus of up to 25 percent of base pay (subject to approval) may be available to a permanent Federal employee who must relocate to accept this position.

The Director, NCRR is responsible for providing leadership and guidance in the development and support of multi-categorical research resources needed for health-related research. Plans, directs, coordinates, and administers the Center's programs to provide the most effective and efficient support for the health research activities of the PHS research institutes and other public and private organizations involved in biomedical research. Applicants for this Senior Executive Service position must have a Doctor of Medicine degree, Doctor of Veterinary Medicine degree or Ph.D. in one of the health sciences (or equivalent combination of experience and training). Send applications to Ms. Ruth Siegel, NCRR, 9000 Rockville Pike, Building 31, Room 3B40, Bethesda, MD 20892. For application forms and a copy of the requirements contact Ms. Wiggins at NCRR on (301) 406-8524.

Deadline for applicants is 11/27/92.

Public Health Service Commissioned Officers interested in performing duties of the position within the Commissioned Corps may submit a resume to the above address.

NIH is an Equal Opportunity Employer

RESEARCH IN
MOLECULAR PHARMACOLOGY

The Department of Pharmacology, Case Western Reserve University invites applications for two programs. The Summer Program for Undergraduate Research places sophomore or junior undergraduates in research laboratories for a 10-week period. A stipend of $2500 plus lodging is supplied. Travel expenses may also be available. Students participate in weekly activities pertinent to careers in biomedical research. Application deadline March 1, 1993. The Biomedical Sciences Training Program admits students to a Ph.D. program in basic medical research on a non-departmental basis. After the first year students choose a mentor and specialty program. Competitive stipends and tuition are provided to all students. Application deadline January 15, 1993. Case Western Reserve University is an Affirmative Action/Equal Opportunity Employer. The Department of Pharmacology encourages minority students to apply to:

Dr. Ruth Siegel
Department of Pharmacology
Case Western Reserve University
Cleveland, OH 44106-4965

ASSOCIATE DIRECTOR
CANCER PREVENTION AND
CONTROL RESEARCH

The University of Kansas Cancer Center and the Department of Preventive Medicine, University of Kansas School of Medicine, will provide a tenure track appointment of appropriate academic rank to an innovative scientist interested in developing a division of cancer prevention and control research. The focus of the new division's research programs will be acquired and inherited genetic predisposition to cancer. It is expected that the individual will have a strong personal research program, strong interpersonal and leadership skills, interest in preventive oncology education, and demonstrated developing administrative expertise. A physician-scientist is preferred, with subspecialty training/career experience that is applicable to a genetic approach to cancer prevention and control. The projected division will encompass investigators with a full range of basic and applied interests, and will be expected to seek out and serve regional needs. Attractive personal and divisional start-up budgets, together with dedicated administrative and newly renovated space, are available. Core biostatistical and technical writing services, as well as state and local hospital tumor registries, are also available. Other areas of programmatic emphasis in the Cancer Center include cancer of the reproductive organs, breast and prostate; research in the behavioral and social sciences; smoking cessation; informational sciences (including a branch of NCI's Cancer Information Service); and cytokines/cellular host defense mechanisms. Interested persons should send their curriculum vitae, bibliography and the names of three references to: Stephen W. Russell, Director, University of Kansas Cancer Center, 3901 Rainbow Boulevard, Kansas City, Kansas 66160-7312.

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Washington, DC 20005

SCIENCE
POSTDOCTORAL RESEARCH ASSOCIATE

Postdoctoral Fellowships are available at Children's Hospital, Harvard Medical School for a Ph.D. or M.D. scientist trained in cellular and molecular biology to participate in projects aimed at understanding the molecular basis of tumor metastasis. Please send curriculum vitae, a list of publications, and the names of three references to: Dr. Bruce R. Zetter, Enders 1077, Children's Hospital, Harvard Medical School, 300 Longwood Avenue, Boston, MA 02115.

Ph.D. TRAINING IN VETERINARY PATHOLOGY, PHYSIOLOGY

The Department of Veterinary Microbiology, Pathology and Biomedical Sciences at the University of Missouri has Ph.D. training positions in Animal Biotechnology. The Ph.D. programs are in Area Pathobiology or Physiology. These USDA National Needs PhD programs emphasize an integrated approach toward Ph.D. training in contemporary molecular biology and biotechnology. Stipends are competitive. Appointments beginning in January 1993 or until positions are filled. Applications should include college transcripts, curriculum vitae, a statement of professional goals, and the names of three references. Send applications to: Dr. G. M. Bauninger, Office of Dean, College of Veterinary Medicine, University of Missouri, Columbia, MO 65211; FAX: (314) 884-5044. University of Missouri is an Affirmative Action/Equal Opportunity Educator and Employer.

RESEARCH IN MOLECULAR PATHOBIOLOGY

The Department of Pharmacology, Case Western Reserve University, invites applications for two programs. The Summer Program for Undergraduate Research places students in undergraduate research laboratories for a 10-week period. A stipend of $2500 plus lodging is supplied. Travel expenses may also be available. Students participate in weekly activities pertinent to careers in biomedical research. Application deadline March 1, 1993. The Biomedical Sciences Training Program admits students to a Ph.D. program in basic medical research on a non-departmental basis. After the first year students choose a mentor and specialty program. Competitive stipends and tuition are provided to all students. Application deadline January 15, 1993. Case Western Reserve University is an Affirmative Action/Equal Opportunity Employer. The Department of Pharmacology encourages minority students to apply to:

Dr. Ruth Siegel
Department of Pharmacology
Case Western Reserve University
Cleveland, OH 44106-4965

RNA
A RESEARCH ASSOCIATE position is available immediately for an individual with a background in nucleic acid biochemistry to join the laboratory of Thoru Pederson, to accelerate a program addressing novel enzymatic activities in RNA. Salary range is $22,000 to $30,000 per year, depending on previous experience. Applicants should submit curriculum vitae and concurrently arrange to have at least two letters of recommendation. Send applications to: RNA Assay Associate, Personal Department, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545, Affirmative Action/Equal Opportunity Employer.

RESEARCH IN EXPERIMENTAL PATHOLOGY AND VETERINARY MEDICINE
LEADING TO THE PH.D. Expanded faculty and state-of-the-art facilities; stipends of $13,000 and up per year including full tuition waiver; attractive campus in suburban Boston, with strong support for recent Ph.D. graduates through an active review process and flexible entrance times for promising candidates. Contact: Dr. Michael B. Steemer, Professor and Chairman, Department of Pathobiology, New York Medical College, Valhalla, NY 10595. Telephone: 914-993-4146. Equal Opportunity Employer.

RESEARCH ASSOCIATE to investigate molecular and cell biology of erythroid development. Requires knowledge and experience with hematopoietic and mammalian cell culturing, and various molecular biology experiments using techniques of molecular cloning, DNA transfection, radiosotope labelling of nucleic acids, gel electrophoresis, DNA sequencing, RNA and DNA hybridization, cell culture and stable DNA transfection. The position will also develop new methods, and assist graduate students and postdoctoral fellows. A Ph.D. degree in Cell Biology and/or Genetics obtained within the past five years, and at least two years of postdoctoral training is required. Salary range: $41,667.67 to $55,350.00 annually. Place of interview: Davis, California. Send this ad and a résumé to: Jo No. SK2495, P.O. Box 269065, Sacramento, CA 95826-9065 no later than December 10, 1992.

RESEARCH SCIENTIST IN HYDROBIOLOGY

The Climate Research Division of Scripps Institution of Oceanography, University of California, San Diego, invites applications for a professional research staff. Applicants should have research experience related to the weather and climate of the global and regional continental/ocean/air temperature system. Preferred is expertise in the study of hydrologic and hydroclimatic processes. Pay range: Ph.D. $41,667.67 to $55,350.00 annually, or M.S. $32,583.33 to $42,500.00 annually. Experience in research and teaching is expected. Salary support will be largely from extramural funds with salary and position rank depending on experience and qualifications and based on UC salary scales. Partial institutional funding is possible at more senior levels. Enquiries and applications should be directed to: Professor Richard C. J. Somerville, Director, Climate Research Division/UCSD, 9500 Gilman Drive, La Jolla, CA 92039-0224. Applications should include curriculum vitae and names and addresses of three references. Closing date is January 15, 1993. The University of California is an Equal Opportunity/Affirmative Action Employer.

POSITION ANNOUNCEMENT IN LANDSCAPE ECOLOGY

Duke University’s School of the Environment seeks applicants at any level for a tenure-track or tenured faculty position in Landscape Ecology. The successful applicant is expected to develop a nationally recognized externally funded research program, and to teach and advise graduate-level research and professional students. Training and/or experience in GIS in conjunction with expertise in ecology, forestry, land use, geography or wetlands is required. Interest and experience in remote sensing, modeling and/or experimental approaches in problems such as cumulative impacts, ecosystem linkages and transfers or land use changes are desirable. Applicants should send curriculum vitae and the names and addresses of three references to: Dr. Curtis J. Richardson, Chair, Landscape Ecology Search Committee, School of the Environment, Duke University, Durham, N.C. 27708-0328, USA. Applications will be accepted through December 15, 1992 or until a suitable candidate is identified. Duke University is an Equal Opportunity/Affirmative Action Employer.

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Molecular Neurobiology

A major grant from the Lucille P. Markey Charitable Trust is providing funding for a continuing search for several faculty positions in molecular neurobiology, with an emphasis upon molecular mechanisms of neural development and plasticity.

We plan to fill one or more tenure track faculty positions (rank open) for fall 1993 and additional positions in the next several years. Candidates will be appointed primarily in the Departments of Cell and Structural Biology or Biochemistry, although appointments may be made in other departments. Substantial funds are available for laboratory start-up and research. The University has a strong interdisciplinary Neuroscience Program with strengths in neural development and plasticity and growing strength in cellular and molecular neuroscience. In addition to the interdisciplinary resources of the Beckman Institute, the University of Illinois is home to the NSF-funded National Center for Supercomputing Applications, and a Biotechnology Center that provides a number of subsidized services including production of oligonucleotides, peptides and monoclonal antibodies, molecular graphics, fluorescence activated sorting, protein and DNA sequencing and transgenic animal facilities.

Salary is commensurate with experience and qualifications. Minorities and women are particularly encouraged to apply. Applications ( vita, 1-2 representative reprints, and a statement of research interests) and three letters of recommendation should be sent to :

Byron Kemper, Chair, Molecular Neuroscience Search Committee
1315 Beckman Institute, 405 N. Matthews
Urbana, IL 61801 Tel. (217) 244-8379

This is an ongoing search and applications received after the deadline may receive consideration. However, to ensure full consideration for fall, 1993 hiring, applications should be received by December 15, 1992.

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

Molecumetics Institute, a Seattle-based pharmaceutical research and development company working in the areas of peptidomimetic pharmaceutical design, is currently recruiting for the following position:

Postdoctoral Research Associate

This opportunity is available to a professional possessing a Ph.D. in Chemistry, Medicinal Chemistry, or Biochemistry. Experience in organic synthesis (additional experience with peptidesynthesis is a plus but not critical), and in purification and spectroscopic techniques (NMR, IR, MS) are essential.

We provide a competitive salary and an excellent fringe benefits package. Interested and qualified candidates should submit resume with salary history and requirements, in confidence, to: Ms. Sara Caanig, Molecumetics Institute, 2023 120th Avenue, N.E., Suite 400, Bellevue, Washington 98005-2199. An equal opportunity employer m/f/d/v.

Molecumetics Institute
VICE PRESIDENT
PRODUCT DEVELOPMENT

Discovering New Avenues for Pharmaceutical Therapy...

Cell Therapeutics, Inc. is an innovative biopharmaceutical start-up company focused on the design and commercial development of drugs that influence proprietary novel and unique 2nd messenger signal transduction pathways. Our discoveries represent breakthrough therapies for a variety of significant human diseases.

We invite you to consider this opportunity to oversee and direct all activities relating to new compound discoveries and pre-clinical and clinical development of our product lines. You will direct development through the design phase up to the release to production and act as technical liaison between R&D, Clinical Research, Marketing and Manufacturing. To qualify, you will have a Ph.D in a scientific discipline and a minimum of 12 years of related experience in a pharmaceutical environment.

CTI is located in downtown Seattle, with views of Puget Sound and the Olympic Mountains. We offer an attractive compensation and benefits package, plus an environment where you can make a significant contribution to medical technology. For consideration, send or fax your resume to:

CTI
CELL THERAPEUTICS, INC.

Trustee
Distinguished
Visiting Minority Scholar

The Biology Department invites applications for the position of Trustee Distinguished Minority Scholar. This is a one-year appointment, beginning in the Fall of 1993, renewable for a second year. An appointment can be made at any faculty rank, including ABD. Preference will be given to candidates with specialization in molecular biology, but any biological specialty will be considered. The position carries a reduced teaching load, designed to encourage teaching, scholarship and support of students. Review of applications will continue until position is filled. A letter of application, curriculum vitae and three letters of recommendation should be sent to:
Chair, Department of Biology
Skidmore College
Saratoga Springs, NY 12866

Skidmore College is an affirmative action/equal opportunity employer and educator.

THE UNIVERSITY OF CINCINNATI COLLEGE OF MEDICINE
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Teacher Initiative: Summer Research in Biomedical Research

For Undergraduate Level Students:
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MARC Scholars Summer Program (Minority Access to Research Careers)
The REACH Program (Research Education and Achievement to Careers in Health)

For Matriculating Medical Students:
Summer Prematriculation Programs

Application materials for 1993 programs will be available by February 1, 1993. For more information contact:
The Medical Educational Development Program
University of Cincinnati College of Medicine
231 Bethesda Avenue
Cincinnati, OH 45267-0552
Phone: (513) 558-7212 FAX: (513) 558-1165

We are a Large Pharmaceutical Company based in the PARIS Region, dedicated to the discovery of new drugs. We have a position available in the Division of Cellular and Molecular Biology for:

Pharmacologist
(PH.D)

The applicant should have post doctoral experience in Binding assays and in situ Hybridization Techniques. The candidate should show creativity, initiative and qualities which will help him/her to work in a research team.

To be considered for this position, submit a handwritten letter, CV and photo to Média-System, 6 impasse des Deux Cousins, 75849 Paris Cedex 17, France, quoting ref. 37780 on the envelope.
POSTDOCTORAL POSITIONS

In order to enhance the support that our Bioanalytical R&D area provides to the entire company, we are seeking a Senior Scientist who can visualize “the big picture” and propose/implement creative solutions to scientific challenges.

Overall responsibilities include writing experimental designs for the development, qualification and validation of analytical bioassay methods for cytokines in support of new line extensions, fermentation, purification, clinical and pre-clinical toxicology/PK studies; providing technical expertise at the bench level; and ensuring the development and preparation of technical documents for IND and FDA/ELA submission. In addition, you will review and monitor current operating practices in on-line bioassay methods, formulation, and off shore operations to ensure accuracy and compliance to GMP/GLP.

The qualified candidate will have a PhD in Cell or Molecular Biology, Microbiology or a closely related discipline; and 1-4 years of experience in cell biology/culture and GMP operations. The ability to effectively interface with multidisciplinary professionals at a level of sophistication commensurate with state-of-the-art science, and to ensure the group’s involvement with other areas of the Company are additional vital attributes. Supervisory experience is preferred.

If your vision of scientific research is broad enough to encompass the many facets of involvement at Schering-Plough, we invite your inquiry. We offer a salary commensurate with your education and expertise, a generous benefits package and significant opportunities to impact a dynamic organization. For confidential consideration, please send your resume, indicating salary history and requirements, to: Personnel Manager, Department FML/DD92-49, Schering-Plough Research Institute, 1011 Morris Avenue, Union, New Jersey 07083. We are an equal opportunity employer.

The science of success

S
Senior
Scientist

Bioanalytical R & D
Schering-Plough Research Institute provides opportunities within a growing, evolving, professional Bioanalytical Research & Development Department.

POSTDOCTORAL POSITIONS

Postdoctoral positions are currently available to work in the following areas: Immunology, microbiology, molecular biology, biochemistry, and genetics. Specific areas include: Regulation of autoreactive T cells, mechanism of induction of syngeneic graft versus host disease, regulation of pulmonary immune function, B cell activation, regulation of the induction of TH1 and TH2 T cell subsets, molecular pathogenesis of Yersinia pestis, regulation and biochemistry of pyrimidine biosynthesis, structure and genetic dissection of domains of a multifunctional protein, immunological consequences of tissue-specific mice, and mechanisms of tolerance induction. Experience in cellular and molecular immunology, molecular biology or enzyme biochemistry is highly desirable. The Department of Microbiology and Immunology has 23 primary faculty members with a strong history of federal funding and administers an NIH training grant in immunology that provides support for predoctoral and postdoctoral fellows. Extensive core facilities include flow cytometry, macromolecular structure, transgenic and hybridoma laboratories and supercomputer. Applicants should submit curriculum vitae and three letters of reference to:

Alan M. Kaplan, Ph.D.
Chairman, Department of Microbiology & Immunology
University of Kentucky
College of Medicine
MS-415 Medical Center
Lexington, KY 40536-0084

Women and minorities are strongly encouraged to apply. Affirmative Action/Equal Opportunity Employer.

CDC & ATSDR

The Centers for Disease Control (CDC) and the Agency for Toxic Substances and Disease Registry (ATSDR) are Federal agencies responsible for preventing disease, disability, and premature death, promoting healthy lifestyles and ensuring public safety from hazardous materials. CDC’s and ATSDR’s prevention efforts include: heart disease, hypertension, diabetes, breast and cervical cancer; low birth rate and infant mortality; violence and injuries; environmental exposures such as radon and lead; and behavioral risk factors associated with chronic diseases and sexually transmitted diseases, such as HIV/AIDS. CDC’s headquarters is in Atlanta and includes seven centers, one institute and three program offices. The Director of CDC also serves as Administrator for the Agency for Toxic Substances and Disease Registry (ATSDR).

CDC and ATSDR offer an opportunity to make a difference in the following categories:

- Behavioral Scientist
- Chemist
- Engineer
- Epidemiologist
- Health Economist
- Health Education Specialist
- Industrial Hygienist
- Mathematical Statistician
- Microbiologist
- Physician
- Statistician
- Toxicologist

Salary and benefits are commensurate with qualifications and experience. For further information, send a resume or an Application for Federal Employment (SF-171) to: Ms. Judy Young, Centers for Disease Control, Mail Stop D45 (science), 1600 Clifton Road, NE, Atlanta, Georgia 30333.

CDC AND ATSDR ARE EQUAL OPPORTUNITY EMPLOYERS AND PROVIDE A SMOKE-FREE ENVIRONMENT.

CELL BIOLOGIST

Ross Laboratories, a division of Abbott Laboratories and the leading manufacturer of infant and adult nutritional products, has an excellent opportunity for a Cell Biologist in our Microbiology Department. Primary responsibilities include the development of cell and tissue culture assays to study potentially mitogenic, antibacterial, anti-adhesion and apoptotic factors. Assays will support various nutritional research studies. Incumbent will also have supervisory responsibility for 2-3 microbiologists to achieve specific project goals.

Experience with binding assays in human epithelial, oropharyngeal and uroepithelial cells required. A working knowledge of molecular biology and biochemistry is essential. Qualified candidates will have an M.S. degree in cell biology or related field with a minimum of 5-8 years research experience.

Ross offers an excellent benefits program and salary commensurate with experience. Interested candidates should send resume in confidence to: M. Scruggs/S, Dept. 175.
UNIVERSITY OF NEVADA, LAS VEGAS. The Department of Physics has available immediately a full-time position for a FEMALE SUPPORT PERSON. The position involves work on the level of research assistant or research associate. Minimum qualifications are a B.S. degree in Physics, Applied Physics, Engineering Physics or a related discipline, and demonstrated proficiency in the installation, use, and maintenance of scientific instrumentation and laboratory equipment. Applications should be submitted immediately to assure full consideration. Phone: (702) 736-3563 (telephone) or (702) 739-3804 (FAX). UNLV is an Equal Opportunity/Affirmative Action Employer.

LOYOLA UNIVERSITY CHICAGO MOLECULAR VIROLOGIST IMMUNOLOGIST

An excellent opportunity exists at Loyola University Medical College, an Equal Opportunity Affirmative Action employer, with experience in vaccine development and a Molecular Virologist with experience in Papillomavirus research. Join the new Loyola University Virology group and work in our new Cancer Center.

Applicants will develop their research programs and establish grants. Salary and academic rank dependent on the candidate’s qualifications. Please forward curriculum vitae to: Gregorio Delgado, M.D., Professor and Chair, Department of OB/GYN, Loyola University Medical Center, 2160 South First Avenue, Maywood, IL 60153 Telephone: 708-216-3383. Or contact: Lutz Gissmann, Ph.D., Director, Division of Virology Immunology, Loyola University Medical Center, 49-6221-42460.

ASSOCIATE MARINE SCIENTIST position available immediately for a shellfish biologist with experience in development and management of native bivalve fisheries. Experience in oyster ecology and culture desirable. The successful candidate will participate in applied research programs to develop and enhance existing oyster and clam fisheries and to assess the ecological role of oysters in South Carolina estuaries. Permanent, state-funded position with South Carolina Wildlife and Marine Resources Department (SCWMD). Marine Resources Department, Charleston, South Carolina. Application deadline January 15, 1993. Please send curriculum vitae, statement of research interests and goals (less than 3 pages), and three letters of reference to: Dr. Fred Holliday, Marine Resources Research, P.O. Box 12559, Charleston, SC 29422-2859. The SCWMD prohibits discrimination on the basis of race, sex, color, national origin, handicap or age. Women and minority candidates encouraged to apply.

ANESTHESIA SCIENTIST

Application invited for tenure-track or tenured position in the Anesthesiology Department at the University of California at Irvine (UCI) for M.D. and/or Ph.D. Scientist. Candidate must develop and sustain independent program in basic anesthetic research. Opportunities exist for collaborating with established scientists working on molecular or cellular mechanisms in neurosciences, cardiovascular, or molecular biology of drugs of abuse in NIDA Training Grant for recent Ph.D. Background in molecular biology desirable. Applicants must be U.S. citizens or permanent residents. Women and minority candidates encouraged. Please contact: Professor Eric J. Simon, Department of Psychiatry, NYU Medical Center, 580 First Avenue, New York, NY 10016.

POSTDOCTORAL FELLOWSHIP: Training in neuroscience and molecular biology of drugs of abuse on NIDA Training Grant for recent Ph.D. Background in molecular biology desirable. Applicants must be U.S. citizens or permanent residents. Women and minority candidates encouraged. Please contact: Professor Eric J. Simon, Department of Psychiatry, NYU Medical Center, 580 First Avenue, New York, NY 10016.

POSITIONS OPEN

The Biotechnology Patent Examining Group of the Patent and Trademark Office is currently recruiting scientists and engineers for positions requiring experience in nuclear reactor core design, power plant design, and in special techniques for superconducting magnets. Candidates with advanced degrees and/or equivalent experience in the fields of nuclear physics, materials science, or solid-state physics are encouraged to send a resume or SF-171 to the following address:

Patent and Trademark Office Office of Personnel Box 171 Washington, DC 20231 ATTN: D. Dreyfus (180)

For further information, call David L. Lacey at (703) 308-4314. U.S. CITIZENSHIP IS REQUIRED.

BIOCHEMICAL PHARMACOLOGIST—conducts studies of the absorption, distribution, metabolism, excretion and bioavailability of chemicals in laboratory animals, and develop and apply analytical procedures for endogenous and exogenous chemicals in biological fluids and tissues to assess pharmacokinetic properties; establish and maintain a research laboratory in biochemical pharmacology; participate in writing study reports and proposals for various government and industrial sponsors; Toxicology, etc. Experience in Biochemistry with at least two years of postdoctoral training or industrial experience is required. Send resume to: Richard James, Assistant Director, 82080 Ravenswood Ave, Menlo Park, CA 94025. Equal Opportunity Employer. SRI INTERNATIONAL.

CONSERVATION BIOLOGIST

Responsible for a comprehensive science program covering education, interpretation, research and management of conservation lands in Texas. Identify priority species and ecosystems, provide scientific review of proposed acquisitions, and coordinate project teams for monitoring on Conservation land. M.S. or Ph.D. in biology, ecology or related field; knowledge of Texas ecosystems and natural communities. Preference will be given to those in design and administering research; in-depth experience with computers; experience with remote sensing and geographic information systems preferred. Salary to mid-twenties with excellent benefits. Send cover letter and resume by November 30, 1992 to: Mary Dow, The Nature Conservancy of Texas, P.O. Box 1440-S, San Antonio, TX 78257-1440. Equal Opportunity Employer.

THE UNIVERSITY OF MICHIGAN

The Department of Surgery, Section of Thoracic Surgery, is recruiting for a CARDIAC CELL BIOLOGIST, MOLECULAR BIOLOGIST with research interest in myocardial metabolism, effects in ischemia and reperfusion, myocardial preservation, and the use of cell/molecule markers in the field of cell biology and basic research. Experience in synthesis and characterization of thiol and non-thiol-containing small molecules and biological markers. The successful candidate will be expected to have relevant publications in peer reviewed journals, demonstrated ability to obtain extramural funding, and willingness to collaborate with both clinical and basic science colleagues. Salary is commensurate with qualifications and experience. Send curriculum vitae, letter of reference to: Dr. Frank Holliday, University of Michigan Medical Center, 1500 E. Medical Center Drive, Ann Arbor, MI 48109-0344. The University of Michigan is a non-discriminatory/Affirmative Action Employer and strongly encourages female and minority candidates to apply.

MARINE BIOLOGIST, tenure-track ASSISTANT PROFESSOR beginning August 1993. Successful candidate will teach undergraduate/graduate courses, direct graduate student research, and participate in research program. Preference given to candidates with interests in physiological ecology or evolutionary biology, particularly employing molecular ecological techniques and statistical approaches. Send curriculum vitae, statement of teaching/ research interests, graduate transcript (s), and names of 3 references by January 15, 1993 to: Dr. R. Hoar, Department of Biological Sciences, University of North Carolina at Wilmington, Wilmington, NC 28403-3297. UNC Wilmington is an Equal Opportunity/Affirmative Action Employer.

EXTRACTION SPECIALIST IN ENTOMOLOGY, Cooperative Extension, New Jersey Agricultural Experiment Station, Rutgers University, is currently recruiting for a tenure-track faculty appointment. 70% Extension—30% Research. Location: Cranbury/Blueberry Research Center, New Jersey, USA. New strategies and techniques for blueberry and cranberry IPM programs. Opportunities for research include life history and crop phenology characterization. Other research areas could include biological control and hand pollination. Research opportunities extend into greenhouse and field applications. Priority for Extension agents. Collaboration with Extension personnel and industry IPM programs in the implementation of IPM programs is expected. Ph.D. in entomology required. Background in IPM applied insect ecology preferred. Demonstrated written and oral communication skills desirable. Applications will be accepted until December 15, 1992. and resumed in May of 1993. More information or applications to: H. L. Skelton, Associate Director of Extension, Rutgers University, Extension, PO Box 281, New Brunswick, NJ 08903. Rutgers University is an Equal Opportunity Employer.

MAGNET DEVELOPMENT/MATERIALS SCIENTIST. Assistant Scholar/Scientist position with career appointment. Salary at assistant professor level is available immediately for applicants interested in the development of the next generation of high field resistive and superconducting magnets. The successful candidate will be expected to establish a vigorous research program in superconductivity, particularly SQUID and the characterization of materials for superconductors. Experience in synthetic chemistry and characterizing thin films and bulk materials, magnetron sputtering and Laser ablation, and processing and characterization of bronze processed Nb3Sn multilayer superconducting wires will also be expected. The position requires at least a Ph.D. in materials science and engineering. Applicants should be able to work effectively in a multidisciplinary environment. Deadline for applications: January 15, 1993. Florida State University is an Equal Opportunity/Affirmative Action Employer.

COURSES AND TRAINING

FELLOWSHIPS FOR POSTDOCTORAL TRAINING in Neuromuscular Development, Plasticity, and Regeneration at The Ohio State University. Systems, cellular, and molecular approaches are available for trainees supported by an NINDS training grant. Faculty include X. Alley, M. Beattie, G. Bishop, J. Boulliant, R. Boyd, J. Bresnahan, R. Burry, H. Cooke, M. Hadjiconstantinou-Neff, R. Ho, L. Horrocks, J. King, D. Litman, G. Martin, N. Neff, R. Nordlander, R. Rogan, A. Rottler, J. Tjoe, S. Tjioe, N. Tjoe, S. Tjoe, and A. Yates. Fellows supported by the training grant must be U.S. citizens or permanent residents; however, other positions may be available which are supported by funds available to individual investigators.

Applications, including curriculum vitae, statement of research interests, and three letters of recommendation, should be sent to: Dr. G.F. Martin & M.S. Beattie, at the Department of Cell Biology, Neurobiology & Anatomy, The Ohio State University, 2310 West 10th Avenue, Columbus, OH 43210. Potential applicants are encouraged to contact the program directors for further information. Telephone: Dr. Martin (614) 292-1667, Dr. Beattie (614) 292-1781. The Ohio State University is an Affirmative Action, Equal Opportunity Employer and encourages women and minorities to apply.

POSTDOCTORAL TRAINING in Neural Development, Plasticity, and Regeneration at The Ohio State University. Systems, cellular, and molecular approaches are available for trainees supported by an NINDS training grant. Faculty include X. Alley, M. Beattie, G. Bishop, J. Boulliant, R. Boyd, J. Bresnahan, R. Burry, H. Cooke, M. Hadjiconstantinou-Neff, R. Ho, L. Horrocks, J. King, D. Litman, G. Martin, N. Neff, R. Nordlander, R. Rogan, A. Rottler, J. Tjoe, S. Tjoe, and A. Yates. Fellows supported by the training grant must be U.S. citizens or permanent residents; however, other positions may be available which are supported by funds available to individual investigators.

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SCIENCE • VOL. 258 • 13 NOVEMBER 1992
DNAx Research Institute of Molecular and Cellular Biology, Inc.

DNAx Research Institute conducts its basic biomedical research for the purpose of contributing to an understanding of the immune system and of the mechanisms for control of growth and differentiation of mammalian cells.

We currently have openings for technicians in the following areas:

Transgenic Animal Research

Primary responsibility will be microinjection of embryonic stem cells into mouse blastocysts.

Flow Cytometry

Operation of B-D FACSTAR-PLUS and VANTAGE instruments.

Cytokine Fermentation & Purification

Operation and routine maintenance of fermenters with experience in the fermentation of E. coli and mammalian cells.

A position is also available to participate in a collaborative project to clone and characterize novel activities. A Ph.D. in molecular biology is required. Additional opportunities are available for individuals with Bachelors degrees in Biology or related areas and one to two years of laboratory experience.

Qualified applicants should send a resume to the Human Resources Department, DNAx Research Institute, 901 California Avenue, Palo Alto, California 94304. DNAx is an equal opportunity employer, m/f/h.
CELL AND MOLECULAR BIOLOGISTS

Department of Cell & Structural Biology, University of Illinois at Urbana-Champaign, invites applications for ASSISTANT, ASSOCIATE, or FULL PROFESSOR, from PhD scientists interested in establishing an outstanding research program in a young, expanding department. Potential areas of focus include membrane receptors and signaling, cell cycle control, nuclear and cytoskeletal structure/function, cellular immunology, developmental biology, and molecular aspects of virus/host interactions. Responsibilities also include teaching core cell biology courses. Position is full-time, available beginning 1993-94 academic year. Salary will be commensurate with experience and level.

Substantial start-up funds and laboratory facilities are available, along with exceptional physical and intellectual resources of the University: Transgenic Animal Facility; Center for Electron Microscopy; Genetic Engineering Facility, providing oligonucleotide and peptide synthesis and automated protein sequencing; Cell Science Laboratory, providing hybridoma culture and flow cytometry; Molecular Graphics Facility; National Center for Supercomputing Applications; and Beckman Institute for Advanced Science and Technology, which combines research in biological and physical sciences.

Urbana-Champaign offers the residential advantages of a medium-sized city (population 120,000) plus excellent cultural amenities on campus. Its location gives easy access to Chicago and St. Louis.

Applicants should send curriculum vitae, summary of research interests, and three letters of reference to: Ms. Ann Zielsinski, Search Coordinator, Department of Cell and Structural Biology, University of Illinois, 506 Morrill Hall, Urbana, IL 61801. Telephone: (217) 333-6118.

To ensure full consideration, applications should be received by 15 January 1993. Interviews may be conducted before this date, but all applications received by then will be given full consideration. Final selection will not be made until after this date.

The University of ILLINOIS
at Urbana-Champaign

Tampa Bay Research Institute

Positions Open

Tampa Bay Research Institute of St. Petersburg, Florida, in association with Salem-Teikyo University of Salem, West Virginia, announce the opening of several anticipated positions at the rank of Assistant, Associate or Professor levels.

The focus of the research will be in the study of human virus latency with emphasis using molecular biology approach and antiviral therapy. Capability of teaching in the area of enzyme, membrane, protein/nucleic acids at the graduate level will be desirable.

Salem-Teikyo University, already committed to strengthen its Undergraduate training in Molecular Biology/Biotechnology, is planning to establish a Graduate Program to be implemented in the Fall of 1993.

Successful candidates will spend most of their time in Florida for their research programs and supervising graduate student research and will teach one course per year at STU. Joint appointments at the Tampa Bay Research Institute are expected for successful candidates.

Tampa Bay Research Institute is based in a modern facility with excellent individual laboratory and office space, and centralized facilities including a Biotechnology Service Laboratory, transgenic mice and in-house DNA sequence database.

Investigators will enjoy complete freedom to pursue their research goals. While generous program support is provided, scientists are expected to secure extramural funding.

Applicants should have a Ph.D. or equivalent. Interested individuals should send curriculum vitae, list of publications, a short statement of research achievements, and names and addresses of three referees to the Chairman, Search Committee, Tampa Bay Research Institute, 10900 Roosevelt Boulevard, St. Petersburg, Florida 33716.

Ph.D. RESEARCH PHARMACOLOGIST

The successful candidate for this position must have a Ph.D. in Pharmacology or a related discipline. He/she will apply and interpret theories and concepts in pharmacology and neurochemistry and apply a working knowledge of pharmacology and neurochemistry to problems where causal relationships are difficult to establish, few precedents exist and creative thinking is required. Responsibilities would include development/use of appropriate assays for assessing the pharmacological properties of nicotine and CNS nicotine receptors. He/she will provide technical supervision to laboratory personnel, including technical staff and postdoctoral fellows as appropriate. Good communication and interpersonal skills necessary for effective work in an interdisciplinary environment are essential.

The candidate should have a working knowledge of at least two of the following with desire/capacity to learn others: receptor pharmacology/neurochemistry, in vitro/in vivo receptor functional assays, pharmacokinetic/pharmacodynamic modeling, molecular modeling, quantitative structure/activity analyses (QSAR), mammalian cell culture, spectrofluorometry, light microscopy and image analysis, cellular electrophysiology. Postdoctoral or other related experience is preferred but not required.

This position offers the opportunity for further growth and development. Salary is commensurate with ability and experience. An excellent benefits package is provided. Please send current resume, salary history, in confidence to: Ms. R. Susan Cloctor, Personnel Director-R&D, RJRT-RAD 811-12/304E, PO Box 1487, Winston-Salem, NC 27102-1487. An Equal Opportunity Employer M/F

R J Reynolds Tobacco Company

Consortium for a Strong Minority Presence At Liberal Arts Colleges

Minority Scholar-in-Residence Program

With a view towards encouraging African-American, Asian-American, Hispanic-American and Native American scholars to consider teaching and research careers in small liberal arts colleges, the Consortium for a Strong Minority Presence in Liberal Arts Colleges, an association of selective undergraduate institutions, has established the Minority Scholar-in-Residence Program. Applications are invited for the dissertation fellowship program or the post-doctoral fellowship program in all disciplines of the liberal arts and engineering. Applicants should be working toward the PhD or the MFA degree, or should have been awarded the degree no more than five years before application.

The Minority Scholar-in-Residence will receive a stipend equal to the typical salary for beginning instructors or assistant professors. Scholars will be expected to do some teaching and research, and to participate in other activities at the host institution under the supervision of a mentor. It is hoped that the scholars will, upon completion of their residency, qualify for tenure-track appointments at the host institution or similar institution.

Scholars must be citizens of the United States and shall have had no more than five years of teaching or relevant work experience before receiving the award. Ideally, applicants for the dissertation fellowship program should have completed their research before the beginning of the fellowship year.

Among the member institutions of the Consortium, the following offer to sponsor minority scholars during the 1993-94 academic year: Bates College, Bowdoin College, Bryn Mawr College, Colby College, Colorado College, Davidson College, Franklin & Marshall College, Grinnell College, Hope College, Macalester College, Oberlin College, Occidental College, Pomona College, Reed College, Rhodes College, Swarthmore College, The University of the South, Vassar College, Wellesley College and Whitman College.

The brochure describing the program, and an application form, may be secured by writing to:

Gwendolyn M. Bookman, Assistant to the President
Wellesley College, Wellesley, MA 02181

DEADLINE FOR THE RECEIPT OF APPLICATIONS IS DECEMBER 4, 1992

RJ Reynolds Tobacco Company
Ortho Territory...

Ortho Diagnostic Systems Inc., a Johnson & Johnson Company, is at the forefront of the research and development of AIDS and Hepatitis blood screening systems. Our commitment to developing new ways to protect the blood supply and diagnose infectious diseases is realized through a stimulating work environment that emphasizes teamwork and communication. We seek the following detail-oriented team players with a pioneering spirit and related scientific background to advance the study of blood diagnostics.

**SENIOR SCIENTISTS**

The following senior opportunities are available:

- **PRODUCT SUPPORT.** We require a Ph.D. and 3-5 years' industrial experience or a Bachelor's/Master's and 7-10 years' experience in the area of protein chemistry and immunochemistry with a strong emphasis on immunoassay development, bioanalytical methods development, and validation.

- **HEPATITIS R&D.** We require a Ph.D. with 3-5 years experience in immunoassay development, a high level of technical proficiency in ELISA and previous supervisory experience.

- **HIV R&D - RETROVIRIOLOGIST.** We require a Ph.D. in a biological science with 1-5 years of industrial experience.

**GROUP LEADER**

**AUTOMATION AND ASSAY DEVELOPMENT.** We require a Ph.D. in Biology, Chemistry, or a related field, and 5+ years of experience in industrial immunoassay development, with at least 3 years in a supervisory role. ELISA and immunoassay development experience is essential; automation experience a plus.

**SCIENTIST**

**PRODUCT SUPPORT.** We require a Bachelor's or Master's degree with 3-7 years of related industrial experience. Strong experience in areas of protein purification and characterization of proteins for immunoassay applications is needed, as is experience with EIA, RIA, HPLC and PAGE, and immunoassay development.

All applicants should be enthusiastic, have good written and oral communication skills, and be computer proficient. We offer a team-oriented, smoke-free work environment, competitive salary and full package of Johnson & Johnson benefits, which includes a dental plan, tuition reimbursement and our on-site total health facility, the LIVE FOR LIFE Wellness Center. For immediate consideration, forward your resume and salary history, indicating position of interest, to: Human Resources, Dept. CP, Ortho Diagnostic Systems, Inc., 1001 US Hwy 202, P.O. Box 350, Raritan, NJ 08869-0606. We Are An Affirmative Action/Equal Opportunity Employer M/F/D/V.

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**Ortho Diagnostic Systems Inc.**

Discovering the future. Delivering its promise.

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**Postdoctoral Research Fellow**

**Signal Transduction**

The PARKE-DAVIS Pharmaceutical Research Division of Warner-Lambert Company has a postdoctoral position available immediately for an independent and highly motivated scientist interested in applying modern molecular techniques to the study of endothelin receptors and their signaling pathways. Current work is focused on the structure, function and regulation of endothelin receptor subtypes in vascular cells (endothelial and smooth muscle), as well as cloned subtypes expressed in mammalian expression systems.

Candidates should be recent Ph.D. graduates with a background in cellular and molecular biology, biochemistry or pharmacology. The laboratory is in the Department of Cardiovascular Pharmacology and collaboration with Department of Signal Transduction and Molecular Biology is highly encouraged. The company has strong ties to the University of Michigan and other academic institutions. Continued academic interactions and publication in leading journals is expected.

Interested persons should forward a curriculum vitae and list of references to Human Resources Department, Box JDM-55, PARKE-DAVIS Research Division, Warner-Lambert Company, 2800 Plymouth Road, Ann Arbor, MI 48105. "Smoke-Free Work Environment"
COURSES AND TRAINING

TRAINING PROGRAMS IN MOLECULAR AND QUANTITATIVE GENETICS
NORTH CAROLINA STATE UNIVERSITY

North Carolina State University announces two Ph.D. training programs:

An NIH Ph.D. Training Program on the molecular and developmental basis for genetic variation in quantitative traits in plants and animals.

A Ph.D. and Postdoctoral Training Program sponsored by the McKnight Foundation and focusing on the application of molecular genetic technology to plant improvement.

Contact: Ms. Joyce Clayton, Department of Genetics, North Carolina State University, Raleigh, NC 27695-7614, Telephone: (919) 515-5712. Minority applicants are strongly encouraged.

ANNOUNCEMENTS

SUMMER RESEARCH TRAINING PROGRAM FOR MINORITY DENTAL STUDENTS

The Department of Dental Research at the University of Rochester invites applications for its summer research training program for minority dental students. The program is available to exposed students to be exposed to basic research in broad multidisciplinary areas. Further information about the program is available by contacting Dr. Lawrence A. Tabak, Department of Dental Research, University of Rochester, 601 Elmwood Avenue, Box 611, Rochester, NY 14642, Telephone: (716) 275-3441; Fax: (716) 473-2679.

PARKINSON RESEARCH GRANTS

June 1, 1993—May 31, 1994

The National Parkinson Foundation, Miami, Florida, invites the submission of grant proposals for Parkinson research. A total of $200,000.00 will be made available to support basic bench research on Parkinson's Disease. The award for a single grant will not exceed $40,000.00. None of the monies are to be utilized for administrative overhead or travel expenses. The application deadline is January 1, 1993; grant starting date will be June 1, 1993. It is required that proposed studies specifically focus on mechanisms involved in the disease process and that the have the potential of finding the cause and prevention of Parkinson's Disease. Scientists intending to work in other field of Parkinson research are not encouraged to apply. Proposals will be assessed by the National Parkinson Foundation Scientific Advisory Board. To obtain submission information, please write to:

National Parkinson Foundation, Inc.
Research Grants
1501 N.W. 9th Avenue
Miami, FL 33136

University of California, San Francisco announces The Formation of a New Graduate Program in BIOMEDICAL SCIENCES

We believe that the next frontier in modern biology is the investigation of normal and pathological function in vertebrates using a combined molecular and integrative approach. To train investigators for research on cells, tissues, and organ systems using molecular, cellular and whole animal techniques, we have formed a new program for doctoral training in Biomedical Sciences. The program will emphasize an integrated approach to vertebrate biology and the importance of disease in biological research. A faculty of over sixty members, drawn from basic science and clinical departments, represents a broad range of research interests. Students entering the program will take a specially designed curriculum of courses combined laboratory rotations, and will then enter a laboratory for research training. We invite applications from qualified students, especially women and minorities. Further information about the program can be obtained from: Dr. Zach Hall, Head, or Dr. Steinunn Baekkessv, Chair of Admissions. For application forms, please contact: Pamela Humphrey, Program Coordinator, Box 0444, University of California, San Francisco, CA 94143.

ANNOUNCEMENTS

CALL FOR PAPERS

The International Symposium on the Ecological Effects of Arctic Airborne Contaminants is seeking research abstracts for both oral and poster presentations. This Symposium will be held in Reykjavik, Iceland, on October 4-8, 1993. For further information and a copy of the abstract submission form, please contact:

Dr. Dizon Landers
Fax: (503) 754-6338
Internet: LANDERS@HEART.COR.EPA.GOV

MARINE SCIENCE STUDENT FELLOWSHIP AND FACULTY ENRICHMENT OPPORTUNITIES

STUDENTS: The Duke University Marine Laboratory (DUML) has full support for minority students for Spring Term 1993 and beyond. Junior and senior level natural science majors study the ocean sciences in small classes and conduct guided research. A mentor/tutor program is open to all participants. Detailed announcement available by contacting Dr. Lawrence Tabak, Department of Environmental Sciences, Duke University, Beaufort, NC 28516. Telephone: (919) 728-2111.

FACULTY: The Marine Lab encourages minority Visiting Scholars to present a research seminar and engage in informal discussions during a three to five day Spring Term visit. Expenses and honorarium available. Please contact: Professor J. Ramus, DUML, Beaufort, NC 28516. Telephone: (919) 728-2111.

Programs funded jointly by the National Science Foundation and Duke University.

Duke University
School of the Environment
Duke University is an Equal Opportunity/Affirmative Action Employer.

A COMPREHENSIVE GENETIC LINKAGE MAP OF THE HUMAN GENOME

The NIH/CEPH Collaborative Mapping Group, in cooperation with SCIENCE, has prepared a complete collection of baseline genetic linkage maps including detailed descriptions and citations for markers on each chromosome. This important collection represents materials published in the 2 October 1992 issue of SCIENCE and additional, peer reviewed information. To order contact: Dr. Mark Geyer, NIH, NCHGR, Building 38A, Room 605, Bethesda, MD 20892, or Dr. Howard Cann, CEPH, 27 Rue Juliette Dodu, 75010, Paris, France.

MEETINGS

1993 American Indian Student Research Symposium, August 12-13, 1993, Montana State University, Bozeman. An opportunity for Indians in health and life sciences, technology and engineering to present research findings and hear talks by Indian professionals. Abstract Deadline: June 1, 1993. For more information, contact American Indian Research Opportunities (AIRO) Program, Montana State University, Bozeman, MT 59715; Telephone: (406) 994-5567.

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