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Some of the international meetings scheduled for 1989 are:

Unexplained Infertility: Basic and Clinical Aspects
Rome, Italy/March 7-8
Scientific Organization: G. Benagiano (I), K.J. Catt (USA) and G. Spera (I)

Symposium on the Pathogenesis and Control of Viral Infections
Beijing, Republic of China/April 24-26
Scientific Organization: F. Ault (I), Z. Zonghan (PRC) and S. Guoxian (PRC)

8th Workshop on Development and Function of the Reproductive Organs
Touraine, France/May 23-25
Scientific Organization: N. Josso (F)

1st International Congress on G.I.F.T.: from Basics to Clinics
Rapallo, Italy/June 8-10
Scientific Organization: R.H. Asch (USA) and L. De Cecco (I)

Membrane Technology in Clinical Pathology, Biochemistry and Pharmacology
L'Aquila, Italy/June 19-23
Scientific Organization: R. Verna (I), R.P. Blumenthal (USA), J.A. Hannover (USA) and R.P. Garay (F)

Cardiovascular and Neurological Function and Ovarian Secretions
Dubrovnik, Yugoslavia
Aug. 31-Sept. 1
Scientific Organization: F. Naftolin (USA)

Establishment of a Successful Human Pregnancy
Cambridge, U.K./September 21-23
Scientific Organization: R.G. Edwards (UK)

Developmental Endocrinology
Geneva, Switzerland/October 23-24
Scientific Organization: P.C. Szidonko (CH) and M. Aubert (CH)

Advanced Course in Molecular Pathology and Biotechnology
Rome, Italy/November 6-10
Scientific Organization: L. Frati (I)

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**ACADEMIC PROFESSIONAL—PROTEIN PURIFICATION. We have developed unique electrophoretic technology for large scale protein purification. To exploit it we are seeking a biochemist or chemical engineer with considerable experience in protein purification and demonstrated research interests. Salary open. Apply to: Dr. Bier, Center for Separation Science, Building 20, University of Arizona, Tucson, AZ 85721. The University of Arizona is an Equal Opportunity/Affirmative Action Employer. Closing date 20 October 1988.**

**AIDS RESEARCH SCIENTIST**

Full-time research positions are available for M.D.s and Ph.D.s to participate in a multidisciplinary program to study the interactions of human immunodeficiency virus (HIV) with cells of the immune system. Applicants must have postdoctoral experience in immunology, cell and molecular biology or virology. Experience working with HIV is preferred. Address inquiries to: Dr. Leonard Chess, Department of Medicine, Columbia University, 630 West 168th Street, New York, NY 10032.

**AQUATIC ECOLOGIST**

We seek applicants for a tenure-track assistant professor position in aquatic or wetlands ecology for appointment in the fall of 1989. Research responsibilities include the development of an active and fundable research program in areas of ecology that will complement and enhance those of present faculty. Possible research areas include: (i) physico-chemical limnology, nutrient cycling, planktonic interactions or microbial ecology; (ii) interactions among wetland plants or communities, wetland nutrient cycling or interactions between terrestrial and aquatic communities; and (iii) lentic benthollogy including littoral or profundal ecology, abiotic or biotic interactions among invertebrates (including aquatic insects), fish, macrophytes, or periphyton. Teaching responsibilities include one undergraduate and one graduate course each year, possibly including undergraduate courses in general ecology, biostatistics or participating in the teaching of general and graduate level courses in conservation or ecosystem ecology. Special strengths of the Department, in addition to aquatic ecology, are parasitology and insect vector biology. Modern laboratory and exceptional computer facilities, and the 2800-hectare University of Notre Dame Environmental Research Center, a protected study area with over 20 lakes in the Upper Peninsula of Michigan, provide unique opportunities for aquatic research. Submit curriculum vitae, list of publications, names of three references, giving some research and teaching interests to: Dr. Robert P. McIntosh, Chairman, Search Committee, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN 46556 by 15 November 1988. Qualified women and minority group candidates are encouraged to apply.

**PERSONNEL PLACEMENT**

**SCIENCE** publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing; no abbreviations. Advertisements in ad must be at least 2 weeks after date of issue in which ad appears. Also, personnel agencies must agree that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, handicapped, or sexual preference. SCIENCE reserves the right, in its discretion, to decline to publish advertisements submitted to it.

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**POSITIONS OPEN**

**AQUATIC ECOLOGIST/FISHERIES BIOLOGIST**

EnviroSphere Company is seeking Aquatic Ecologists/Fisheries Biologists with experience in freshwater and/or saltwater systems. Responsibilities include population and ecological assessments and impact report (EIS) preparation. Knowledge of ichthyology and computer skills desirable, good oral and written communication skills essential. EnviroSphere offers excellent growth opportunities, competitive salary, and a comprehensive benefits package. Please send resume, and salary history/requirements, to: T. A. Caparo, Ebasco Services Inc., 160 Chubb Avenue, Lyndhurst, NJ 07071. Equal Opportunity Employer M/F/H/V.

**ASSISTANT PROFESSOR:** Application are invited for a position at the level of assistant professor (tenure-track) in the Department of Chemistry at Stanford University, with primary research and teaching interests in the area of organic or inorganic chemistry. Applicants must be strongly motivated toward creative research and have a commitment to teaching at the undergraduate and graduate levels. In applying please send curriculum vitae, list of publications, a brief statement of research interests (three pages or less) and, in addition, have three letters of recommendation sent to: Professor Richard L. Schweet, Department of Chemistry, Stanford University, Stanford, CA 94305. Stanford is committed to Equal Opportunity through Affirmative Action Policies. In Employment, we encourage applications from women and minority groups. Applications should be received by 1 November 1988.

The Department of Biology at the University of Dayton invites applications for a tenure-track position at the level of ASSISTANT PROFESSOR. Responsibilities include commitment to the development of a strong research program in any subdiscipline of biology with specific emphasis on the application of modern molecular biological techniques in achieving research objectives; teaching undergraduate and graduate courses in the application of molecular biology techniques; occasional participation in introductory courses, undergraduate and graduate seminars; directing graduate student research; and academic advising. Applicants must have postdoctoral experience. Starting date is August, 1989. Applicants must provide curriculum vitae, concise state- ment of teaching and research goals, recent reprints, and have three letters of recommendation. Address: Dr. Albert J. Burky, Chairman, Search Committee, Department of Biology, University of Dayton, Dayton, OH 45469, by 2 November 1988. An Equal Opportunity/Affirmative Action Employer.

The Department of Medicinal Chemistry, School of Pharmacy, University of Mississippi announces an opening for a 12-month tenure-track position as ASSISTANT PROFESSOR. The Department emphasizes research in molecular modeling, immuno-medicinal chemistry, drug-receptor binding studies, and drug metabolism. Candidates should hold a Ph.D. degree in medicinal chemistry or closely related field and preferably have postdoctoral experience and a B.S. degree in pharmacy. Women and those from minority groups are encouraged to apply. Interested persons should submit by 1 December 1988 a resume, a research plan and the names of three references to: W. Franklin Gilmore, Chairman, Department of Medicinal Chemistry, School of Pharmacy, University of Mississippi, University, MS 38677.

The University of Mississippi is an Equal Opportunity Employer.

**ASSISTANT RESEARCH PROFESSOR OF IMMUNO-OPTICAL IMMUNOLOGY (immunochemistry): Position is available at Duke University Medical Center. Position is open for an individual with a Ph.D. in immunological immunology, having 2 to 3 years of experience in human and experimental malignancies and an additional 2 years in psychoimmunology. Responsibilities include supervising medical and graduate students. The starting date is within 30 days. To: Dr. W. T. Meyer, Professor, Box 3829, DUMC, Durham, NC 27710.**

**23 SEPTEMBER 1988**

PERSONNEL Placement 1699
ASSISTANT PROFESSOR OF ENTOOMOLOGY. The Department of Plant, Soil and Insect Sciences, University of Wisconsin, invites applications for a tenure-track position in insect systems and evolutionary biology. The department, which offers a range of programs, serves an undergraduate and graduate student population of over 2500 students, and teaches introductory entomology. It will be expected to participate in interdisciplinary research, and secure external grant funds for an on-going research program. Must be able to apply advanced techniques to insect systems. Duties include curation of the departmental insect museum and participation in extension entomology activities. The successful applicant will have a Ph.D. in entomology and postdoctoral experience preferred. Send letter of application; statement of professional goals and research plan, resume, transcripts of all university work, and three letters of recommendation to: Dr. J. E. Lloyd, Chair, Search Committee, Department of Plant, Soil and Insect Sciences, Box 3384 University Station, University of Wisconsin, Madison, WI 53706.

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ASSISTANT PROFESSOR WILDLIFE ECOLOGY AND MANAGEMENT

Tenure-track position in the Department of Range and Wildlife Management beginning 15 January, 1989. Teach one to two undergraduate courses in wildlife ecology and management and a graduate course in wildlife ecology. Advise undergraduate and graduate students. Develop an active research program in upland game ecology. Ph.D. in wildlife biology or management required. Preference will be given to candidates with research experience in the areas of ground-dwelling and tree-dwelling small mammals, and/or ungulates. Send letter of application, a detailed research plan, and three letters of recommendation to: Professor J. A. Weirich, Department of Range and Wildlife Management, Texas Tech University, Lubbock, TX 79409.

ASSISTANT PROFESSORS; the Department of Biological Chemistry and Molecular Pharmacology Harvard Medical School intends to make two appointments at the assistant professor level in 1989. We are actively seeking applicants with strong research backgrounds in molecular biology, biochemistry, and molecular pharmacology, including membrane biology, structural biology, and gene regulation. Applicants are invited to send curriculum vitae, bibliography, statement of research plan and list of three to four referees to: Professor Christopher Walsh, Chairman, Biological Chemistry and Molecular Pharmacology Search Committee, Harvard Medical School, 45 Shattuck Street, Room 301, Boston, MA 02115. Women and minorities are encouraged to apply. Harvard University is an Equal Opportunity Employer.

ASSISTANT RESEARCH SCIENTIST. Exciting and challenging opportunity for a candidate with a Master's degree in biology plus experience in gene cloning, DNA sequencing and hybridization of nucleic acids to conduct molecular biology research in the Mental Health Clinical Research Center. Excellent salary and benefits. Please submit curriculum vitae to: Ms. Joan Harmon, Personnel Department, New York University Medical Center, 550 First Avenue, New York, NY 10016. An Equal Opportunity Employer M/F.

ASSISTANT/ASSOCIATE PROFESSOR BIOCHEMISTRY/SECURITY

Applications are invited for two tenure-track positions in the field of biochemistry/molecular biology. Candidates should have a doctoral degree in biochemistry or a related area and at least 2 years of postdoctoral experience. Preference will be given to candidates with projects concerning application of modern biochemical methods to studies of molecular recognition on proteins and/or DNA structure. A Ph.D. or equivalent in molecular biology is required. Applicants will be expected to develop a strong, independent research program that complements and extends ongoing academic activities in the field of biochemistry. Candidates should have a record of publication, demonstrated potential to develop a program of research that is directed towards the study of the genetics and structure of disease-related proteins. The position is available on a September 1, 1988 start date.

The University of Missouri is an Equal Opportunity/Affirmative Action Employer.
Research Triangle Universities
Plant Molecular Biology Fellowships

Applications due February 1, 1989
Awards to be announced after March 15, 1989

In 1983, Duke University, North Carolina State University, the University of North Carolina at Chapel Hill and the North Carolina Biotechnology Center formed a Consortium dedicated to the advancement of studies in the molecular biology of green plants and other photosynthetic organisms. In 1989, with financial support from Ciba-Geigy, KUR Nabisco and the North Carolina Biotechnology Center, the Consortium will provide a limited number of graduate and postdoctoral Fellowships for study and research in plant molecular biology at the three Research Triangle universities.

Fellowship candidates must be U.S. citizens. Preference will be given to applicants from outside North Carolina. Each Fellow must be based in a plant molecular biology laboratory at one of the Research Triangle universities but will participate in activities involving faculty and students at all three institutions.

Graduate Fellowships
The graduate student stipend is $10,000 plus tuition, with an allowance for supplies and travel. The award is renewable for two additional years. Candidates must apply directly for graduate admission at one or more of the participating universities; acceptance in a graduate degree program is required for the award.

Postdoctoral Fellowships
The postdoctoral stipend is $21,500, subject to university policies, plus a $5,000 allowance for supplies and travel. The award is renewable for an additional year. Applicants must be sponsored by a qualified faculty member at one of the three participating universities.

For specific application requirements, contact:
North Carolina Biotechnology Center
ATTN: Jay Garrell
P.O. Box 13547
Research Triangle Park, NC 27709-3547
FAX 919-549-9710

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AIDS Research

Smith Kline & French Laboratories, a leader in pharmaceutical research, has immediate openings for Postdoctoral Scientists to work on the immunological, biochemical and physical structure of human immunodeficiency virus (HIV) proteins expressed in recombinant hosts. The selected candidates will be part of a multidisciplinary research group partially supported by the National Institutes of Health and involved in research on novel vaccines and therapeutic drugs for the prevention and treatment of AIDS and related conditions.

Excellent opportunities exist for innovative interdisciplinary research in our new and superbly equipped Research and Development Center in suburban Philadelphia near Valley Forge, Pennsylvania.

We are seeking postdoctoral scientists in the following areas:

- Molecular Genetics: Ph.D. in Microbiology or Molecular Biology with experience in recombinant DNA technology and interest in retrovirology and immunology. Refer to position V0049.
- Protein Chemistry: Ph.D. in Biochemistry or Protein Biochemistry with experience in protein purification (HPLC) and interest in protein structure/function studies and macromolecular assembly. Refer to position V0050.
- Peptide Chemistry: Ph.D. in Chemistry, Biochemistry, or Biophysics with experience in protein chemistry and/or peptide synthesis, and interest in protein structure, immuno-recognition and design of peptide and protein recognition mimics. Refer to position V0051.
- Nuclear Magnetic Resonance: Ph.D. with experience in high field 2D NMR or in development of NMR methods. Refer to position V0052.

We are also seeking Biochemists (B.S./M.S.) with experience in protein purification using a diversity of classical and modern methods. Refer to position V0048.

We offer an excellent compensation, benefits and relocation package as well as opportunities for personal and professional growth. Publication of research results is encouraged and supported. For confidential review, please forward your C.V. and names of three references to: Ms. Angela Varrichio, Associate Employment Administrator, Smith Kline and French Laboratories, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.

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POSITIONS OPEN

BIOLOGICAL OCEANOGRAPHER
UNIVERSITY OF CALIFORNIA, SANTA BARBARA

The Department of Biological Sciences, University of California, Santa Barbara, invites applications for a tenure-track position at the assistant professor level in biological oceanography. Responsibilities of candidates should have research programs which investigate the relationship between the physical or chemical environment and marine organisms from an oceanographic perspective. Potential research areas include, but are not limited to, the role of currents in larval recruitment patterns, the influence of fronts, and the wave conditions on soil stabilization and water chemistry on the physiological, reproductive, or behavioral adaptations of organisms, and the effects of physical or chemical processes on the distributions and abundances of pelagic organisms. In addition to establishing a strong research program, the successful applicant will be expected to teach the physical oceanography portion of a required course for undergraduate or graduate level, and interact with the broad spectrum of marine scientists associated with the Department of Biological Sciences. A Ph.D. is normally required by the time of appointment. Interested individuals should send a copy of their curriculum vitae, current research, and teaching plans along with three letters of reference sent to:

The Chairperson, Department of Biological Sciences, University of California, Santa Barbara, CA 93106-1066


BIOLOGICAL SCIENCE—Assistant Professor, tenure-track. Begin January, 1989. Ph.D. required. Teach botany (vascular and non-vascular), ecology (plant and animal), local flora, environmental science, and limnology. Applications reviewed beginning 23 October 1988. Send résumé, undergraduate and graduate transcripts, and three letters of reference to: Dr. Charles Chapman, Department of Biological Sciences, Troy State University, Troy, AL 36082. TSU is an Affirmative Action/Equal Opportunity Employer.

University of California, San Francisco (UCSF) BIO-MOLECULAR RESOURCE CENTER. The Center provides services for the campus community in protein and DNA synthesis and sequencing. The person will be responsible for administrative and technical operations in the facility. We are looking for a person who can coordinate and supervise six research associates with meticulous technique, experience in instrumentation, and knowledge of protein and nucleic acid chemistry. He/She should have a Ph.D. in biology or related specialty, and at least 2 years of postdoctoral experience. Some microcomputer experience is essential. The appointment will be made at a level commensurate with qualifications. To apply, submit curriculum vitae, with a statement of background/interests, and the names of three references to: Dr. K. Ivanisech, BRC Search Committee, University of California, San Francisco, CA 94143-0541. UCSF is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

BOTANIST/PHYSIOLOGICAL ECOLOGY, ASSISTANT PROFESSOR

The Department of Biology, Hamilton College, invites application for a tenure-track position at the assistant professor level in botany, effective 1 July 1989. Applicants must have a Ph.D. degree and postdoctoral experience. The successful applicant will be expected to collaborate in the teaching of the introductory biology sequence, both a three quarter and a two course, or courses, in the specialty. Applicants should have a strong commitment to both teaching and scholarship and must be in the later stages of developing a strong research program. It is expected that the successful candidate would begin a research program involving highly qualified undergraduate students. Interested individuals should send curriculum vitae and the names of three referees to: Dr. Robert Berend, Chairperson, BRC Recruitment Committee, Hamilton College, Clinton, NY 13323. Deadline for receipt of applications is 15 November 1988. Hamilton College is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.

BIOCHEMIST—BATES COLLEGE

Bates College invites applications for a tenure-track faculty position at the assistant professor level to begin in September 1989. Applicants are expected to have a strong commitment to undergraduate instruction and research. Ph.D. degree required. Responsibilities include designing courses in biochemistry and general chemistry courses, and directing undergraduate research. Salary is competitive and substantial start-up funds are available. Closing date: 1 November 1988. Send curriculum vitae, transcripts, description of research interests, and three letters of reference to: Professor David G. C. Ralston, Chair, Department of Chemistry, Bates College, Lewiston, ME 04240. Bates College is an Equal Opportunity Employer. We are eager to identify minority and women candidates.

University of Utah—BIOLOGICAL ORGANIC CHEMISTRY

The Department of Chemistry at the University of Utah invites applications for a position in the area of bioorganic chemistry which we expect to fill in the 1988 to 1989 academic year. We are seeking highly qualified individuals with research interests in the general areas of biological reaction mechanisms, structure and function of proteins or nucleic acids, or biosynthesis which emphasize chemical approaches. Applications will be considered from junior-level candidates and established scientists. Undergraduate teaching experience will be given to junior-level scientists with postdoctoral experience. Applicants should send a detailed vitae and publication list and a brief (no more than three pages) outline of research plans to: Biological Search Committee, Department of Chemistry, University of Utah, Salt Lake City, UT 84112. In addition, applicants must arrange for three references to send letters directly to us. The deadline for receipt of all material is 31 October 1988, or until suitable candidates are identified. The University of Utah is an Affirmative Action/Equal Opportunity Employer.

BIOSTATISTICIAN

Microbial Genetics Division, a division of Pioneer Hi-Bred International, Inc., currently has an opening for a Biostatistician. This position will be responsible for consulting with research group on design of field trials and laboratory experiments in plant and animal research studies; analyzing data, interpreting and presenting results to scientists and management; applying statistical methodology related to research and development projects to improve current methodology; and developing and evaluating statistical programs.

M.D., Ph.D. in biostatistics and 1 to 3 years of experience in design and analysis of field and laboratory experiments are required for immediate consideration. Please send your resume to: Human Resources, Microbial Genetics Division, 7250 NW 62nd Avenue, P.O. Box 258, Johnston, IA 50131. Affirmative Action/Equal Opportunity Employer.

BIOSTATISTICIAN/DATABASE PROGRAMMER

The Center for Molecular Medicine and Immunology (CMMI) is a specialized cancer research center with a major focus on understanding the role of monoclonal antibodies in the early diagnosis and therapy of cancer. As an nationally known cancer research and treatment center, we confer a Ph.D. degree for a versatile Biostatistician/Databse Programmer. You will have the opportunity to work closely with clinicians, scientists, and administrators and a small technology transfer team in the development of on-line systems that support oncological research and clinical projects.

To be considered, candidates must have either a Ph.D. or master's degree in biostatistics with 2 years of statistical/programming experience. Any of the following qualifications will be considered an asset: an understanding of statistical principles; a working knowledge of statistical software; knowledge of computer programming languages; or knowledge of microcomputer, statistical packages or scientific methodology. CMMI offers a comprehensive benefits package and attractive educational opportunities. Send résumé to: Director of Personnel, Center for Molecular Medicine and Immunology, 1 Bruce Street, Newark, NJ 07103. An Equal Opportunity/Affirmative Action Employer.

BAYLOR UNIVERSITY—BIOLOGY

TENURE-TRACK POSITIONS

(i) Plant Systematist: A Ph.D. is required. Rank is open. The successful candidate must document research experience in either cryptogamic or vascular plant systems. Research interest in taxonomy and systematics, development of junior-senior graduate level course in principles of plant systematics and other mutually agreed upon courses, supervising student research, and providing counseling of the herbaceous type. A Ph.D. in systematics (m. Microbiology or Botany) is required. Rank is open. The successful candidate must document research experience in microbiology/bacteriology. Research interest in molecular microbiology, an advanced graduate degree in microbiology, a senior-graduate level course in bacteriology and other mutually agreed upon courses, and supervising student research. Rank is open. A Ph.D. is required. Rank is open. The successful candidate must document experience with both TEM and SEM. Responsibilities include: Teaching electron microscopy, research on microbiology for majors and other mutually agreed upon courses, and supervising student research. Applications deadline: 1 November 1988. Positions to start summer of 1989 or fall semester of 1989. The chairman is interested in increasing the ethnic and minority representation in the department, and the capability of providing the administrative leadership to continue and extend the department's established programs of research, teaching, and public service. Applicants are invited to send their credentials: a cover letter, a current curriculum vitae, and names, addresses, and telephone numbers of three or more references. Mail applications to: Dr. Shlomo Bar, Chair, Search Committee, Department of Biology, Baylor University, Waco, TX 76799-7388. Baylor University is an Equal Opportunity/Affirmative Action Employer and is subject to the patronage and general direction of the Baptist General Convention of Texas.

CHAIR

DEPARTMENT OF MICROBIOLOGY

Miami University invites applications and nominations for the position of Chair of the Department of Microbiology. Candidates must have an excellent record of accomplishment in research within the discipline, a demonstrated interest and ability in effective teaching, and the capability of providing the administrative leadership to continue and extend the department's established programs of research, teaching, and public service. Applications are accepted until 1 December 1988 and should include curriculum vitae, a synopsis of current research activities, a description of teaching and administrative experience, and the names, addresses, and telephone numbers of three or more references. Mail applications to: Dr. Margaret Fry, Chair of the Search Committee, Department of Biology, Miami University, Oxford, OH 45056.

Miami University supports Equal Opportunity in Employment and Education.

CHAIRPERSON, DEPARTMENT OF BIOCHEMISTRY

The College of Biological Sciences at the University of Minnesota invites applications for the position of chairperson of the Department of Biochemistry and Molecular Biology, expected to begin July 1, 1989. The chairperson is a member of the senior management team. The successful candidate will be a highly visible leader in the College and University. Responsibilities include: leading a department with approximately 100 faculty and staff, teaching undergraduate and graduate courses, providing leadership on departmental development, and advancing the national and international standing of the Department. Letter of application and CV should be sent to: Dr. Carol D. Blair, Search Committee Chair, College of Biological Sciences, 310 Clark Building, Colorado State University, Fort Collins, CO 80523. Telephone: 303-491-1300.

The College of Biological Sciences is ranked among the nation’s leaders in undergraduate education and gives high priority to research. The department has a strong commitment to increasing the diversity of its student body. The College of Biological Sciences supports institutions of higher learning that are committed to diversity, including women and members of ethnic minorities and other underrepresented groups. CSU is an equity employer and is dedicated to supporting an environment where all faculty, students, and staff can flourish.

CSU is an equal Opportunity/Employment/Orderative Action Employer. E.O. Office is located at 314 Student Services Building.
MACARThUR FOUNDATION
POSTDOCTORAL TRAINEESHIP IN AGING

The MacArthur Foundation Research Program on Successful Aging invites applications from graduates of advanced degree programs to conduct research on a collaborative, interdisciplinary study of aging in six sites. Trainees will work with a team of investigators working on longitudinal studies of elderly and will have a unique opportunity to be part of interdisciplinary gerontologic research. While most trainees will be based in laboratories of investigators leading population-based studies, there is also an interest in applicants with a biological or physiological orientation who will serve as a liaison between these studies and other more clinically-oriented and basic biological studies that are part of the research program. The focus of the studies is on the maintenance of physical and cognitive functioning in a psychosocial and physiologic context and on developing new interdisciplinary approaches to larger issues in health and aging.

Positions are available for M.D.'s or Ph.D.'s with an interest in aging, physiology, neurophysiology, endocrinology, epidemiology, basic biomedical sciences, biochemistry, psychology, psychiatry, or related fields. Positions are available at Duke University, Harvard University, Yale University, University of Michigan, Pennsylvania State University, and the Karolinska Institute in Stockholm, Sweden. Emphasis will be placed on candidates' abilities to work in an interdisciplinary setting. Positions are available for terms of 1 or 2 years. Most appointments will be made for July 1989; however, some earlier appointments are possible. Salaries range up to $40,000 commensurate with qualifications and university policy.

Submit curriculum vitae, publications, names of three references, preferences for a specific site and a 2-page statement including areas of expertise and future research plans to: Lisa F. Berkman, Ph.D., Department of Epidemiology, Yale School of Medicine, 60 College Street, New Haven, Connecticut 06510. Affirmative Action Employer.

ASSOCIATE VICE PRESIDENT FOR BIOMEDICAL RESEARCH

The Association of American Medical Colleges seeks an Associate Vice President for Biomedical Research reporting directly to the Vice President for Biomedical Research. The incumbent will share in the management of the Division of Biomedical Research and assist in planning, implementing and evaluating a wide array of programs and activities critical to biomedical and behavioral research and training at member institutions. The Division is concerned with the development of research policy; assessment of needs and policies governing research training; the financing and management of research and the research infrastructure, including plans, equipment, human subjects regulations, and the use of animal and technology transfer; and relationships between academic medical centers and industry. The incumbent will also participate in the programs and activities of the Council of Academic Societies, the component of AAMC's governance representing medical center faculty through 85 professional and specialty organizations.

Candidates should possess an M.D. or Ph.D. degree and have a strong background in research in the biomedical or behavioral sciences. Experience in teaching, a broad knowledge of characteristics of medical school faculties and academic health centers and knowledge of programs and mechanisms in federal and private funding agencies are highly desirable.

Letters of interest with resumes and references should be sent to:

Thomas E. Malone, Ph.D.
Vice President for Biomedical Research
Association of American Medical Colleges
One Dupont Circle NW, Suite 280
Washington, D.C. 20036

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SCIENCE EDITOR/WRITER

The Technical Information Department is seeking an Editor/Writer to provide scientific writing and editing support to a major scientific research division. This includes: writing and/or editing the division's annual report, briefing documents and Vu-Graphs, brochures, proposals, and contributions to institutional documents. Coordinating the production of publications; providing technical assistance/advice to scientific staff regarding text, illustrations, and formats of scientific publications; and reviewing research program literature/correspondence and recommending action and/or drafting responses.

Requires extensive experience in writing/editing technical material at all levels of scientific complexity, preferably in the physical sciences. Skills in publications production techniques, both traditional and computer-assisted. Ability to interact diplomatically with management and scientific personnel on sensitive and/or high-priority projects, to coordinate the activities of publication and office support staff. Degree in one of the physical sciences or in engineering preferred, degree in English or Journalism with significant technical experience acceptable.

Salary range is $2760-$4836/MO., depending on experience, with excellent benefits. To apply, submit a resume to: Employment Office, Job C/4817, Lawrence Berkeley Laboratory, Bldg. 90-1012, #1 Cyclotron Road, Berkeley, CA 94720. (415) 486-4226. An Equal Opportunity Employer, M/F/H.

ARTEN MEDICAL SYSTEMS, INC.
A JOHNSON & JOHNSON COMPANY
Equal Opportunity Employer

IMMUNOCHERMISTRY GROUP LEADER
MEDICAL DIAGNOSTIC MANUFACTURING

Arden Medical Systems, Inc., a locally based division of Johnson & Johnson, a leading Fortune 500 company, is seeking a strong analytical decision maker/implementer for the position of Group Leader. An ideal background must include a Ph.D. in Biochemistry or related field with 3 years supervisory experience or a Master's degree with 5 years relevant experience.

Experience should include managing subordinates in the development of an assay from the bench through introduction into manufacturing. This will include:

- Development of non-isotopic immunoassays.
- Product development of in vitro diagnostic assays.
- Protein chemistry.
- Antigen and antibody binding to plastics.

Senior Scientists

Multiple positions are available at the Senior Scientist level. Candidates must have experience with non-isotopic immunoassays for large and preferably small molecules.

We offer a competitive salary plus bonus opportunity and a comprehensive benefits package. Please contact Mr. Larry Nordby at (612) 540-0966 or send your resume to The Nordby Group, 875 Interchange Tower, 600 So. County Road 18, Minneapolis, MN 55426.
POSITIONS OPEN

CHAIR, Department of Psychiatry—The University of Wisconsin Medical School is seeking a new Chairperson for the Department of Psychiatry. We seek a person who is able to give professional and administrative leadership of the highest quality to a distinguished department, in programs of teaching, research, and clinical service. Send reply with curriculum vitae to: Dr. Peter Eichman, Chairman, Search Committee, c/o M. Martin, Medical School Administration, 1300 University Avenue, Madison, WI 53706. To guarantee full consideration, applications are due by 1 December 1988. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.

THE WARREN WRIGHT, SR.—LUCILE WRIGHT MARKAY CHAIR IN IMMUNOLOGY DEPARTMENT OF VETERINARY SCIENCE UNIVERSITY OF KENTUCKY

The Department of Veterinary Science will accept applications immediately for the recently established Warren Wright, Sr.—Lucile Wright Markay Chair in immunology in Peoria, Illinois. Applicants are welcome from all fields of immunological research. Applicants with an interest in the immunology of infectious diseases are particularly encouraged.

Appointment to this endowed chair includes appointment as professor with tenure in the faculty of the College of Veterinary Medicine, as well as funding for the support of equine research and development of graduate and postdoctoral training programs.

Those interested in this position or wishing further information should contact: Dr. Ernest Bailey; Chairman, Wright-Markay Chair Search Committee; Gluck Equine Research Center; Department of Veterinary Science of the University of Kentucky; Lexington, KY 40546-0099. The University of Kentucky is an Equal Opportunity Employer.

CHEMICAL ENGINEER

Cryopharm Corporation, a growing biomedical company, seeks a chemical engineer with industry experience in aseptic packaging of pharmaceuticals and lyophilization technology, to direct in-process formulation and scale-up efforts. Applicants should have at least 5 years of relevant industry experience. Familiarity with the blood products industry is a plus. Excellent communication skills and problem-solving abilities are vital. The successful candidate will have a unique opportunity to take on significant responsibilities and grow with a dynamic company that is developing an exciting new technology.

Applicants should contact: Neil Diver, Cryopharm Corporation, 2585 North Street, Pasadena, CA 91107. Telephone: 818/793-1040.

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

CHEMIST, SYNTHETIC ORGANIC, Agricultur- al Research Service (Northern Regional Research Center), Peoria, Illinois, has a research associate position available to conduct research on the synthesis and character- ization of unsaturated hydrocarbons and the use of the synthesized compounds as models in basic studies on the oxidative stability of vegetable oils. Ph.D. in organic chemistry is required. Experience or postdoctoral research with strong background in advanced organic synthetic methods, preparation and use of organometallic catalysts and reagents, and advanced methods of analysis are preferred. The position pays $27,716, and is a temporary appointment not to exceed 2 years. Additional information may be obtained from Timothy L. Mounts, Extension 4011, extension 555. Applications in response to this ad must be marked 8N033 and must be received by 7 October 1988. Send curriculum vitae and addresses of three references to: Mr. Timothy L. Mounts, Northern Regional Research Center, ARS, USDA, 1815 North University Street, Peoria, IL 61604. ARS is an Equal Opportunity Employer.

POSITIONS OPEN

CHIEF, PROTEIN CHEMISTRY LABORATORY—Research scientist for a 2-year program to develop novel excitatory amino acid antagonists through screening natural products and studying the molecular properties of the receptor for excitatory amino acid transmitters. Organizes multiple research projects. Manages operating budget for laboratory.

Requires a doctorate degree in the biological sciences with 3 years of postdoctoral research experience in the purification and structural and functional characterization of proteins, and 1 year isolating natural toxins. Experience in HPLC instrumentation and application, amino acid analysis, protein sequencing, recombinant DNA technology and immunomicroscopy. Position located in Cambridge, Massachusetts. $73,000 salary, plus benefits. Send resume and three letters of reference to: mt@atlas.wright.edu. University of Washington, Seattle, WA 98195. U.S. Citizen/Permanent Resident. An Equal Opportunity/Affirmative Action Employer.

CLINICAL PSYCHOLOGY EDUCATOR

Full-time position. Assist clinical educators to develop curriculum, conduct, and evaluate an "Urban Medicine" program to integrate psychosocial training throughout undergraduate and general practice residency programs in an expanding inner-city hospital/healthcare complex. Ph.D. or D.O.M.D. preferred. Experience in education program coordinators or developmental program developer. Active research interest, involvement preferred and encouraged. Competitive salary and benefit package. DHHS grant-awarded project. Position available immediately. For application, address: to: Eldon Nelson, Ph.D., Director, Medical Education, Michigan Osteopathic Medical Center, 2700 M.L. King Jr. Boulevard, Detroit, MI 48208. Affirmative Action/Equal Opportunity Employer.

DEVELOPMENTAL BIOLOGIST

The Department of Cell Biology and Anatomy at Oregon Health Sciences University invites applications for a faculty position at the level of an assistant, associate or full professor. We are looking for an individual with a strong research background in developmental biology or developmental neurobiology, and who is currently using cellular and molecular biological approaches in their work. The applicant will be expected to develop an independent, competitively funded research program, and to participate in the teaching of graduate and medical students. Submit curriculum vitae, selected reprints, and the names of three references by 1 January 1989 to: Dr. Gary Ciment, Department of Cell Biology and Anatomy (L215), School of Medicine, Oregon Health Sciences University, Portland, OR 97201. Affirmative Action/Equal Opportunity Employer.

DIRECTOR, INSTITUTE OF BIOMEDICAL ENGINEERING UNIVERSITY OF TORONTO

The University of Toronto, Canada's largest and most diversified university, is seeking a director for its Institute of Biomedical Engineering. This graduate institute, founded in 1962, is sponsored jointly by the Faculties of Applied Science and Engineering and Medicine, has about 20 core and cross-appointed faculty and currently has a total of seventy graduate students at the master's and doctoral level.

The successful candidate will be a senior academic with extensive experience in biomedical engineering, and a background in physical engineering or medicine. He or she will be a strong leader, capable of working in an interdisciplinary academic research environment, and interested in maintaining strong industrial and governmental support. The Institute was awarded a $700,000 quality research in thematic areas, and be prepared to contribute to the teaching programs of the institute with the support of an expert staff, independent, and academically strong graduate faculty.

Applicants should forward a letter of application, the names/addresses of references, and a current curriculum vitae by 30 November 1988 to: The Chairman, Search Committee Director of Biomedical Engineering Faculty of Applied Science and Engineering. University of Toronto, Toronto, Ontario M5S 1A4, Canada.

ENVIRONMENTAL PATHOLOGY/TOXICOLOGY, NRSA supported PRE- AND POSTDOCTORAL POSITIONS available after October 1988. Research emphasis on cellular and molecular effects (mutagenesis, neurotoxicity, biotransformation, DNA damage) of toxic chemicals (especially trace metals, aromatic hydrocarbons, ozone respiratory inflammatory, aflatoxins). Inquiries: Dr. N. K. Motzer, Program Director, Department of Pathology, SM-30, University of Washington, Seattle, WA 98195. U.S. Citizen/Permanent Resident. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION DEPARTMENT OF MEDICAL BIOCHEMISTRY AND GENETICS

The Department of Medical Biochemistry and Genetics invites applications for a tenure-track faculty position. Salary and rank are open and dependent on qualifications. An endowed chair is a possibility for an exceptional candidate. As part of an expanding research community, candidates are expected to establish or maintain a vigorous research program and participate in medical and graduate instruction. Applications from individuals with research interests in any area of biochemistry, molecular biology, or molecular genetics are encouraged. Submit curriculum vitae, description of research interests, and names of three references to: Dr. Garret Ibler, Director of Medical Biochemistry and Genetics, Texas A&M College of Medicine, College Station, TX 77843-1114. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION

The Biophysics Institute at Boston University School of Medicine invites applications for a faculty position available at the assistant professor level. Applicants should be experienced in one of the following areas: (i) molecular biology, (ii) cellular and molecular biology, and have a strong interest in the areas of lipids, lipoproteins and cellular membranes. Start up funds are available. However, applicants must demonstrate an ability to create an independent research program. Please send curriculum vitae, bibliography, three letters of reference, and a brief statement of research interests to: Dr. David Atkinson, Biophysics Search Committee, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118-2394. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN ANALYTICAL CHEMISTRY—Seton Hall University. The Chemistry Department of Seton Hall University invites applications at the assistant professor level for a tenure-track position in analytical chemistry. Applicants must hold a Ph.D. and have had postdoctoral research at a major university or research facility. The successful candidate will teach at the graduate and undergraduate levels and conduct analytical chemistry research with B.S., M.S., and Ph.D. candidates. All areas of analytical chemistry will be considered. Demonstrated research excellence and a commitment to teaching at the graduate and undergraduate levels are required. Applicants should send a resume and a statement of future research plans, three letters of recommendation and an indication of anticipated availability to: Faculty Search Committee, Department of Chemistry, Seton Hall University, South Orange, NJ 07079. Evaluation of applications will begin 1 November 1988. Seton Hall is an Equal Opportunity/Affirmative Action Employer. Seton Hall is the Catholic University in New Jersey, founded in 1856.
STATE OF KUWAIT
KUWAIT UNIVERSITY
COLLEGE OF SCIENCE

The Kuwait University College of Science invites applications for posts of Professor, Associate Professor and Assistant Professor for the academic year 1989/90 tenable September 1, 1989 in the following disciplines:

Department of Mathematics: Computer Science, Mathematical Modeling (The department is interested in promising holders of the Ph.D. in all specializations of Math and Computer Science)

Department of Physics: (Asst. Prof., Assoc. Prof.) Lasers and their applications (experimental), Modern Optics (experimental), Laser applied atomic physics spectroscopy (experimental)

Department of Chemistry: (Asst. Prof., Assoc. Prof.) Organic chemistry (spectroscopy)

Department of Geology: Crystallography and Mineralogy, Marine Geology

Department of Zoology: (Prof. or Assoc. Prof.) Biology of Chordates, Molecular Biology, Marine Biology

The language of instruction of the College of Science is English. The method of teaching is based on the credit hour system. All applicants must hold the Ph.D. or its equivalent at the time of application. Monthly salaries are as follows:

- Professor: KD 1070–KD 1230
- Assoc. Prof. (Asst. Prof.): KD 875–KD 1035
- Asst. Prof. (Lecturer): KD 680–KD 840

The current exchange rate is 1 KD (Kuwait dinar) = $3.50 approx.

Annual air passage for appointee, spouse and up to three children below the age of twenty. Tuition allowance for children through secondary level in accordance with University regulations.

One month basic salary gratuity is provided at the end of the contract for each year served. Summer and mid-year paid leave is provided together with free furnished accommodation and utilities. There is no income tax in Kuwait.

Application forms may be obtained from:

Kuwait University Office
3500 International Dr. N.W.
Washington, DC 20008

All applications together with a non-returnable copy of academic qualifications (including transcripts of graduate programs), a copy of last year's student teaching evaluation of performance and representative publications should be sent by registered post directly to:

Dean
College of Science
P.O. Box 5969
13060 Safat
KUWAIT

All applications must be received by November 30, 1988.

CELLULAR BIOLOGIST &
CELLULAR IMMUNOLOGIST

Collagen Corporation is a dynamic and growing biomedical company. Our Research & Development subsidiary, Celtrix Laboratories, is a leader in the identification and therapeutic uses of newly discovered cytokines and growth factors. If you're a qualified research scientist with strong supervisory abilities, we invite you to join us in our attractive San Francisco bay area location.

CELLULAR BIOLOGIST

The selected candidate will be responsible for developing in vitro and in vivo models which can be used to evaluate the role of novel cytokines in the growth and differentiation of epidermal and connective tissue cells. You will also determine the potential use of these factors in the treatment of skin diseases. Qualified individual will have a Ph.D. in Cell Biology or a related field with 2-3 years of research experience in skin biology and/or dermatology.

CELLULAR IMMUNOLOGIST

The successful candidate will supervise the development of immune-mediated inflammation models used to evaluate the role of different cytokines in the immune response. This position requires a Ph.D. and 2-3 years of experience, or an M.S. and 4 years' experience, with inflammatory animal models and cellular immunology.

Our R&D focus will provide you with a challenging, stimulating career environment in an ideal location, as well as excellent salaries, full benefits, an employee stock purchase plan and relocation assistance. For prompt, confidential consideration, send your resume to: S. Hansen, Human Resources, Collagen Corporation, 2500 Faber Place, Palo Alto, CA 94303. We are an equal opportunity employer.

COLLAGEN CORPORATION
5 POST DOCTORAL POSITIONS
SIGNAL TRANSDUCTION & MEMBRANE BIOLOGY

Newly-funded post doctoral positions are available in a well-supported, interdisciplinary department for research projects in the following areas:

1. Inositol polyphosphate signalling pathways and the regulation of calcium homeostasis in liver and neurosecretory cells. These projects will expand on exciting new data obtained using fluorescence imaging of cytosolic calcium and calcium storage organelles in single cells as well as research into the control of inositol lipid metabolism. Experience in one or more of these areas is desirable. (Dr. J. B. Hoek and A. P. Thomas)

2. Effects of alcohol and cocaine on excitation-contraction coupling in cardiac cells. This project will focus on the effects of these drugs on calcium fluxes in isolated heart cells using calcium indicators and digital imaging microscopy. Experience in cardiac physiology or pharmacology preferred. (Dr. A. P. Thomas)

3. Physico-chemical basis of alcohol and anesthetic action. These projects will investigate the mechanism of interaction of ethanol and anesthetics with biological membranes and identify the structural/chemical basis of acquired tolerance to these agents. Experience in either biological applications of NMR/ESR or in state-of-the-art methods of isolation and analysis of membrane lipid constituents is required. (Dr. T. Taraschi)

All of the positions are available for a period of 2-5 years and are renewable annually.

Applications including curriculum vitae, names of 3 references and a brief summary of research interests should be sent to: Mr. H. Schurr, Academic Administrator, Department of Pathology and Cell Biology, THOMAS JEFFERSON UNIVERSITY, Philadelphia, PA 19107. Thomas Jefferson University is an Equal Opportunity/Affirmative Action Employer.

RESEARCH SCIENTISTS
INFLAMMATORY DISEASE RESEARCH

Merrell Dow Research Institute, located in suburban Cincinnati, has two vacancies for scientists in our multidisciplinary research team investigating novel approaches for the treatment of inflammatory diseases, particularly arthritis. Potential candidates are required to have a Ph.D. in pharmacology, immunology, pathology, or a related field. One or more years of post-doctoral experience is preferred. Candidates should have a general background in inflammation and experience in one of the following areas:

• IN VIVO and/or IN VITRO methods for studying the processes underlying inflammation;
• Synthesis and destruction of extracellular matrix in inflammation and tissue repair.

We offer excellent compensation, comprehensive benefits, and relocation assistance. Please send your resume, salary expectations and names of three references in confidence to:

Merrell Dow

RESEARCH SCIENTISTS
ANALYTICAL BIOCHEMISTRY

Amgen has immediate opportunities for Research Scientists in Analytical Biochemistry to participate in the development of methods for protein characterization and protein stability using normal and reversed phase HPLC and other analytical techniques.

Qualified applicants for these positions must have a Ph.D. in Biochemistry or a related discipline with an emphasis in analytical methods and instrumentation.

Amgen is a dynamic and growing organization providing an exciting and innovative research environment as well as an attractive location northwest of Los Angeles. Amgen also offers an excellent compensation and benefits package.

Qualified candidates should send a c.v., including references, in confidence to:

Recruitment, Dept. #346
AMGEN
1900 Oak Terrace Lane
Thousand Oaks
CA 91320

AMGEN

SCIENCE AND ENGINEERING RESEARCH SEMESTER
Opportunities for UNDERGRADUATE RESEARCH

The U.S. Department of Energy offers college juniors and seniors the opportunity to spend one academic term in energy-related research. Qualified students work at one of six federal laboratories: Argonne National Laboratory, Brookhaven National Laboratory, Lawrence Berkeley Laboratory, Los Alamos National Laboratory, Oak Ridge National Laboratory, and Pacific Northwest Laboratory.

Research areas include: computer sciences, engineering, physics, environmental and life sciences, mathematics, and physical sciences

- Stipends up to $175 per week: round-trip travel; housing
- Must be U.S. Citizen or Permanent Resident Alien

For application information contact:

SCIENCE and ENGINEERING RESEARCH SEMESTER
U.S. Department of Energy
Office of Energy Research, ER-44, Room 3F-061
1000 Independence Avenue, SW
Washington, D.C. 20585

Application Deadlines:
October 10, 1988 for Spring 1989 Cycle
March 15, 1989 for Fall 1989 Cycle
BIOMOLECULAR RESEARCH POSITIONS

GEO-CENTERS, INC., a rapidly growing professional services R&D firm, specializing in the materials, biological and optical sciences, has immediate openings for Senior Technical Staff Members and Support Personnel.

CELL DIFFERENTIATION AND GROWTH

- The principal position involves conducting investigations on the development and application of novel hemopoietic growth factors to determine the molecular mechanisms responsible for replication and terminal differentiation. Code 2091
- The Support Personnel will be required to assist in the utilization of monoclonal antibody techniques for identification and isolation of immature hemopoietic cells. Code 2092/2093

BONE GROWTH

- This senior position involves the conducting of histological analyses of bones and various cells that metabolize bones and measuring the indices of bone growth and bone quality in conjunction with selected growth factors to evaluate their effect on bone growth. Code 2094
- Assisting personnel will be preparing specimens for histological evaluations, and performing biochemical assays which may include the use of radioisotopes. Some computer analysis will be required. Code 2095

SEPTIC SHOCK

- Senior Level Position. Basic research will be performed on the pathophysiology of septic shock, and conducting clinical evaluations of potentially useful therapeutic drugs. Code 2096

WOUND REPAIR

- This support position involves the evaluation of novel peptides, proteins, growth factors and biopolymers for use in enhancing wound repair. This individual will assist in the preparation of materials and animals needed for these studies, and assist in the evaluation of their effects on wound repair. Code 2097

BIOSENSORS

Two senior-level candidates being sought to conduct investigations on the development of novel biosensors:
- This position will involve the development of novel fluorescence-based fiber optic diagnostics. Code 2098
- Another position will involve the purification and reconstitution of ion channel proteins, and their subsequent incorporation into receptor-based biosensors. Code 2099

QUALIFICATIONS
(U.S. CITIZENSHIP REQUIRED)

Successful senior-level candidates will possess a Ph.D. or equivalent combination of education/experience in Biochemistry, Molecular Biology, Immunology, Pharmacology, Physiology or Biology.
Support staff personnel will possess a B.S./M.S. and 3-5 years related work experience in Immunology, Biochemistry, Molecular Biology or Biology.

GEO-CENTERS, INC. offers competitive salaries, relocation assistance, and excellent benefits. Qualified candidates are urged to submit their resume, salary requirements and professional references in confidence to:

GEO-CENTERS, INC.
10903 Indian Head Highway
Pt. Washington, MD 20744
Attn: Deborah Hall-Greene/Code 2096.
FACULTY POSITION IN NEUROBIOLOGY

Applications are invited for a tenure-track, assistant professor position in the Department of Cell Biology at the University of Maryland, Baltimore County. Candidates should have a strong research background in cellular neurobiology, with a focus on molecular mechanisms of cell signaling and experience in teaching human neuroscience. Please send curriculum vitae, a summary of research plans, and the names of three references to: Dr. Donald A. Fischman, Department of Cell Biology and Anatomy, Cornell University Medical College, 1300 York Avenue, New York, NY 10021. Cornell University Medical College is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION—MOLeCULAR GENeTICS AND IMMUNOLOGY

The Center for Molecular and Cellular Biology at Dartmouth Medical School has an academic track faculty position available (rank open) at the interface of molecular genetics and immunology. Candidates should hold the Ph.D. or M.D. degree and have a minimum of 2 years of postdoctoral experience. The successful candidate will join the Program in Molecular Genetics and will hold an academic appointment in an appropriate basic science or clinical department at Dartmouth Medical School. Faculty are expected to maintain a strong research program and participate in the teaching of medical and graduate students.

Send curriculum vitae, statement of research plans, and the names of three references to: Molecular Genetics Search Committee, Dartmouth Medical School, HB7200, Hanover, NH 03756. The closing date for applications is 31 October 1988. Equal Opportunity Employer. Women and minority applications encouraged.

FACULTY POSITIONS IN MOLECULAR BIOLOGY

The Department of Biology at the University of Virginia invites applications from molecular biologists who use structural and/or molecular genetic approaches to study eukaryotes. Positions are available to tenure-track assistant professors at the assistant professor or more senior levels are available immediately as part of an expanding program in molecular biology. Our search will consider candidates in all areas of molecular biology research including macromolecular structure and function, nuclear or cytoplasmic function, and developmental and neuronal regulation. Send statement of research interests, a summary of teaching interests, and three letters of reference by 1 November 1988, to: Molecular Biology Search Committee, Department of Biology, University of Virginia, Charlottesville, VA 22901. Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS

FACULTY POSITIONS IN MOLECULAR AND CELLULAR BIOLOGY

Dartmouth Medical School is expanding in the area of neuroscience through the establishment of the Center for Molecular and Cellular Medicine. We seek three new faculty members with primary research interests in molecular and cellular neurobiology. These individuals will be members of the Molecular and Cellular Neuroscience Program and will also hold appointments in an appropriate basic science or clinical department. Preference will be given to candidates whose research interests and expertise complement other Programs in the Center, including cell biology, endocrinology, immunology, molecular genetics, and neurobiology.

Candidates should hold the Ph.D. or M.D. degree and have a minimum of 2 years of postdoctoral experience. The level of appointment will depend on experience. All faculty will be expected to establish a strong research program and will participate in the teaching of graduate and medical students.

Send curriculum vitae, statement of research interests, and names of at least three references to: Neuroscience Search Committee, Department of Molecular and Cellular Medicine, Dartmouth Medical School, Hanover, NH 03756. Dartmouth Medical School is an Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

HEAD, PUBLIC HEALTH NUTRITION

University of California, Los Angeles (UCLA) School of Public Health, 1 July 1989. The candidate will be expected to take a leadership role in the development of a multidisciplinary research and training program. This position will focus on the role of nutrition in health promotion and disease prevention at the community and national level. Extensive resources in nutrition research at UCLA, and a funded Clinical Nutrition Research Unit, provide a rich environment for collaboration. The candidate should be able to integrate various aspects of public health nutrition involving nutritional health care delivery, epidemiology, biological sciences and behavioral aspects.

Qualifications should include a doctorate in nutrition or a closely related biological science, or an M.D. with nutritional or related training. Experience is required in public health nutrition, delivery of nutritional services, food and nutrition policy, and the provision of nutritional information to the community.

Salary and rank to be commensurate with experience. Send curriculum vitae and names of three references to: Chair, Search Committee for Public Health Nutrition, Room 717-279, 1099 Health Sciences Center, Los Angeles, CA 90024-1772 by 15 February 1989. The University of California is an Affirmative Action/Equal Opportunity Employer and welcomes applications from qualified women and minorities.

IMMUNOLOGIST—UNIVERSITY OF SOUTHERN CALIFORNIA (USC) COMPREHENSIVE CANCER CENTER

The USC Comprehensive Cancer Center is recruiting an immunologist to complement its program in Cancer Immunology. The successful candidate will be appointed at the level of assistant professor and is expected to have a tenure-track position in the Department of Microbiology at the USC School of Medicine. The successful candidate will be expected to develop an independent research program in modern immunology and to interact with other cellular and molecular immunologists. Women and minorities are strongly encouraged to apply.
INSECT GENETICS: The USDA Forest Service has a 2-year position available immediately to study and improve fitness of laboratory-reared gypsy moth used for research, virus production, and sterile male application. Ph.D. required. Training or experience in quantitative genetics is desirable but not essential. Salary range $27,000 to $32,000. Position is located at the Center for Biological Control of Northeastern Forest Insects and Disease, Hamden, Connecticut. For information call: Dr. William Wallner, telephone 203-773-2022. Send résumés to: Dr. Wallner, U.S.D.A. Forest Service, 31 Mill Pond Road, Hamden, CT 06114.

INSTRUCTOR/ASSISTANT/ASSOCIATE PROFESSOR, Unit for Laboratory Animal Medicine, University of Michigan, Ann Arbor. Candidates must have a Ph.D./V.M.D. degree, advanced training, and evidence of productivity in research. Board-certification in a veterinary specialty is also desired. Duties include establishment of a productive research program; training veterinary residents in research and laboratory animal medicine; service responsibilities in the Unit for Laboratory Animal Medicine. The primary emphasis of the position will be research. Rank and salary are commensurate with training and experience. Send curriculum vitae and names of three references to: Daniel H. Ringler, D.V.M., Director, Unit for Laboratory Animal Medicine, University of Michigan, Ann Arbor, MI 48109-0614. The University of Michigan is an Affirmative Action/Equal Opportunity Employer.

THE UNIVERSITY OF QUEENSLAND
Equal Opportunity Employment is University Policy
LECTURER/SENIOR LECTURER—DEPARTMENT OF BIOCHEMISTRY
Applications are invited from suitably qualified graduates for the position of lecturer/senior lecturer in the Department of Biochemistry. The successful applicant will be required to teach undergraduate and postgraduate students and to establish a program of research which is compatible with the existing research strengths of the Department. These lie within the areas of enzymology, medical biochemistry, molecular genetics, plant biochemistry, and protein chemistry. Preference will be given to applicants with experience and expertise in a branch of modern molecular biology such as recombinant DNA technology or protein structure and engineering. The University has recently established a Centre for Molecular Biology and Biotechnology under the direction of Professor John Mattick. There will be an excellent opportunity for the appointee to establish close links with the Centre.

The university campus is located on the Brisbane River, a few kilometers from the centre of a progressive city in the most rapidly expanding region of the country. The city has a subtropical climate with facilities and environs for an excellent lifestyle.

Appointment will be for 5 years in the first instance. Extensions of appointment will be subject to a performance review in the fourth year.

Salary: Lecturer: $28,842 to $38,832 per annum. Senior Lecturer: $33,745 to $46,179 per annum. Closing date: 14 October 1988. Reference No: 49988

Further information may be obtained from: Professor Brian Shanley, Head, Department of Biochemistry, The University of Queensland, St. Lucia, Queensland, 4067, Australia; telephone: (07) 377 2310.

MASS SPECTROSCOPIST
The Division of Clinical Pharmacology, The Johns Hopkins University, has an immediate opening for a mass spectroscopist at the faculty research associate level in the Clinical Research Center Core Mass Spectrometry Laboratory. The Laboratory will be involved in quantitative studies of the metabolism of zidovudine and other compounds being tested for efficacy in the treatment of the Acquired Immune Deficiency Syndrome. Applicants should have experience in quantitative mass spectrometry using GCMS and LCMS, including sample preparation, purification and derivatization techniques. The facility will be equipped with a triple quadrupole GCLC/MS/MS instrument with a thermospray interface. Access to the resources of The Middle Atlantic Mass Spectrometry Center and collaboration with Dr. Robert Cotter may be possible as well. Experience in the mass spectral analysis of nucleosides and nucleotide metabolites is desirable. Applicants should contact: Dr. David Kornhauser, Johns Hopkins School of Medicine, 600 N. Wolfe Street, Baltimore, MD 21205.

23 SEPTEMBER 1988

POSTDOCTORAL FELLOW
Molecular Pharmacology
This position, within our Research & Development Department will develop and investigate new areas of research. Major duties will include investigating the biochemical and physiological mechanisms for regulation in muscle contractility using isolated tissues and isolated myocytes. Background must include a Ph.D. in Pharmacology, Physiology, Biochemistry or other related sciences. General knowledge of muscle mechanisms and the use of computers in physiological and biophysical studies are required.

Candidates responding to this position should refer to Job # 9103X064 on all resumes.

SENIOR SCIENTIST
Molecular Pharmacology
Due to the expansion of our research activities and the implementation of new research programs, we seek a Senior Scientist to establish laboratory within Molecular Pharmacology. This individual will investigate the factors controlling blood coagulation and thrombus life and develop novel research approaches to the treatment of abnormal thrombotic diseases. Background must include a Ph.D. in Biological Sciences with 2-4 years of postdoctoral experience. Demonstrated expertise in thrombosis and fibrinolytic research is required, as well as the ability to establish independent laboratory and collaborate fully with other members of the department. A comprehensive knowledge and understanding of the coagulation cascade mechanism is required.

Candidates responding to this position should refer to Job #910190904 on all resumes.

At Glaxo Inc., growth opportunities and up-to-date facilities are complemented by a location near Raleigh/Durham that has excellent resources in close proximity. Prestigious universities, scenic vistas, lively recreational areas, and exciting cultural opportunities. Further, we reward talent and creativity with an excellent salary and benefits package (including a completely equipped, on-site athletic facility). Candidates interested in these positions, please send your resume, including salary history and CORRESPONDING JOB # AS MENTIONED ABOVE, to:

Human Resources Department

Glaxo Inc.

PO Box 13398
Research Triangle Park, N.C. 27709
(NO Phone Calls, Please)
No Private Agency Referrals, Please
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Paving the way to a healthier world.
MALARIA FIELD STUDIES
PAPUA NEW GUINEA INSTITUTE OF MEDICAL RESEARCH

The Papua New Guinea Institute of Medical Research, a statutory body of the Papua New Guinea Government, conducts research into the diseases affecting the people of Papua New Guinea. The Institute has recently been awarded funding by the U.S. Agency for International Development to conduct a variety of field and clinical studies related to malaria vaccine development efforts. Applications are sought for the following professional staff positions for this major malaria field project:

1. Research Fellow in Epidemiology
2. Research Fellow in Molecular Biology
3. Research Fellow in Parasitology
4. Research Fellow in Immunology
5. Research Fellow in Virology
6. Research Fellow in Biochemistry
7. Laboratory Manager

Positions will be located initially in a branch of the Institute in Madang, PNG, with several later relocated to a new field station to be constructed in East Sepik Province. Salaries and other allowances (which include annual bonus, clinical supplement, housing, education, and transportation) are as established for Contract Officers by the PNG Government. For further information and application instructions, write:

IfM Institute
American Institute of Biological Sciences
1800 North Kent Street, Suite 930
Arlington, VA 22209

MEDICAL SOCIOLOGIST

Full-time position. Direct clinical educators to develop a curriculum, conduct, and evaluate an “Urban Medicine” program to integrate psychosocial training throughout interdisciplinary and general medical education, training in an expanding inner-city hospital/healthcare complex. Ph.D. or M.A. preferred. Previous clinical application of sociological, anthropology, and behavioral science principles are required. Experience in education program development and teaching skills necessary. Active research preferred and encouraged. Competitive salary and benefits package. DHHIS grants-awarded project. Position available immediately. Send resume to: Eldon Nelson, Ph.D., Associate Director, Medical Education, Michigan Neurological Institute, Mott Hospital, 2700 M. L. King Jr. Boulevard, Detroit, MI 48208. Affirmative Action/Equal Employment Opportunity.

MOLECULAR BIOLOGIST

The American Registry of Pathology is recruiting molecular/cellular biologists at the B.S., M.S., and Ph.D. levels to develop and implement diagnostic methods for use in patient research or diagnostic research. Salary depends on experience. Send curriculum vitae and names of references to: Timothy J. O’Leary, M.D., Department of Cellular Pathology, Armed Forces Institute of Pathology, Washington, DC 20306–6000.

MOLECULAR, CELLULAR, AND DEVELOPMENTAL BIOLOGY

DEPARTMENT OF BIOCHEMISTRY
BAYLOR COLLEGE OF MEDICINE

The Department of Biochemistry has two tenure-track FACULTY POSITIONS in the areas of molecular, cellular, and developmental biology. These positions provide major research space, institutional start-up funding, limited teaching requirements, and an excellent opportunity to build a research program within a large and interactive research environment. Applications at the assistant professor level are preferred, but applications from more senior candidates will be considered. Interested individuals should send their curriculum vitae, a statement of research interests, and the names of three references to:

Dr. John Wilson, Search Committee Department of Biochemistry Box 21411
Baylor College of Medicine Houston, TX 77030

An Equal Opportunity Employer

MOLECULAR AND CELLULAR BIOLOGY

POSTDOCTORAL POSITIONS

UNIVERSITY OF ALASKA FAIRBANKS
MUSEUM DIRECTOR

University of Alaska Museum (AAM accredited natural history museum emphasizing the circumpolar north) seeks a director by nomination or application. Minimum qualifications: Ph.D., research accomplishments in a field of natural history, experience in museum administration as a curator or director. University museum experience preferred. Candidates must be committed to developing the Museum's role within the University and sensitive to its tripartite mission of research, teaching, and public service. Director is responsible for developing and implementing programs, fundraising, budget planning and management, personnel, public relations, research, and other forms of scholarship.


UAF is an Affirmative Action/Equal Employment Opportunity Employer and Educational Institution.

MOLECULAR AND CELLULAR BIOLOGY

THE UNIVERSITY OF ARIZONA

As part of a University-wide expansion of Biological Sciences and Biotechnology, the Department of Molecular and Cellular Biology at the University of Arizona is seeking candidates for new tenure-track faculty positions. Preference will be given to candidates with research interests in the areas of cell biology or molecular and genetic studies of plant biology. Candidates should have an M.D. or Ph.D. in the appropriate area of research and be prepared to direct, develop, and establish highly productive laboratories of excellence. Teaching responsibilities will include undergraduate and graduate level courses. Applications are invited from all qualified individuals. Please address all applications to: John Williams, Department of Molecular and Cellular Biology, University of Arizona, Tucson, AZ 85721. To ensure consideration, applications should be received by 30 October 1988, but applications will be accepted until the positions are filled. The University of Arizona is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

PATHOLOGY CHAIR—The Oregon Health Sciences University School of Medicine is seeking applicants for the position of Professor and Chair of the Department of Pathology. This position has been chaired by the first faculty member at the University of Arizona Medical School, Dr. James L. Kushner, for over 25 years. The University has over 25 faculty engaged in clinical and anatomic pathology service, research, and the teaching of residents, medical students, and medical technologists. The position has been filled by a highly respected individual with strong administrative and clinical skills. Submit curriculum vitae to: Robert C. Neerhout, M.D., Chairman, Pathology Search Committee, School of Medicine, Oregon Health Sciences University, Portland, OR 97201. An Affirmative Action/Equal Opportunity Employer.

PHARMACOLOGY—Temple Medical School—The Department of Pharmacology at Temple Medical School is seeking a pharmacology faculty position at the assistant professor level. We seek an individual who will develop an active research program in the areas of molecular, cellular, and developmental biology. The position will be filled by a candidate with a Ph.D., postdoctoral experience, and a strong record of research productivity. Please submit a résumé and a concise statement of research interests, and arrange for three letters of recommendation to be sent to: Faculty Search Committees Hahn Medical College, Temple University, 3400 North Broad Street, Philadelphia, PA 19140. An Equal Opportunity Employer.

POSTDOCTORAL ASSOCIATES IN PLANT MOLECULAR BIOLOGY

CORNELL PLANT SCIENCE CENTER

Two-year postdoctoral positions available 1 October 1988 or 1 October 1989 to carry out research in cooperation with one or more of the following scientists associated with the Cornell Biotechnology Program: Elizabeth Kearns, Pauline M. Kariuki, Elizabeth Keller, Andre Jagendorf, John Sanford, Steven Tankesley, and Mary Russell. Contact the Biotechnology Program for further information on research projects concerning the isolation, analysis, and transfer of plant genes. To apply, send curriculum vitae and three letters of reference to: Plant Science Center, Biotechnology Program, 301 Biotechnology Building, Cornell University, Ithaca, NY 14853–2703. Cornell University is an Affirmative Action/Equal Opportunity Employer.

NEUROPHYSIOLOGY RESEARCH—A POSTDOCTORAL FELLOWSHIP is available beginning 1 October 1988 at the National Institute of Neurological and Communicative Disorders and Stroke (NINCDS), Section on Learning and Memory, National Institute of Mental Health, 9000 Rockville Pike, Bethesda, Maryland 20892. The successful candidate will work with Dr. David G. Nees, M.D., Director, Division of Neurology and the Neurophysiology Research and Training Center, University of Alabama at Birmingham, 1710

SCIENCE, VOL. 241
MOLECULAR BIOLOGY
SENIOR SCIENTIST
SANDOZ RESEARCH INSTITUTE

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

The Sandoz Research Institute is seeking a senior scientist to play a vital role in molecular biology research. The position offers a unique opportunity to develop creative, independent research programs utilizing recombinant DNA and other molecular biological technology to identify novel therapeutic approaches in the following areas: glucose regulation and diabetes mellitus, lipoprotein metabolism and atherosclerosis, monoclonal antibodies, and platelet activating factor and other mediators of inflammation and immune function. The successful candidate will work closely with interdisciplinary teams of intramural scientists and collaborate with extramural scientists.

Requirements for the position include a Ph.D. in Molecular Biology or closely related discipline, and a minimum of 5 years’ research experience beyond the doctoral degree in molecular biology preferably with emphasis on eukaryotic gene expression. You must have demonstrated ability to plan sound scientific projects, to conduct innovative independent research, to achieve research goals and to make significant intellectual contribution. A record of significant publications in major scientific journals as well as excellent written and oral communication skills are also required.

Positions at Sandoz offer personal satisfaction, professional opportunity/challenge, competitive salaries and an excellent benefits package. Our campus-like facilities are conveniently located in a residential community of northern New Jersey, approximately 30 miles from New York City. For prompt consideration, please forward your resume and salary requirements in confidence to:

William A. Flannery
Manager, Staffing Department (122-3)
SANDOZ
PHARMACEUTICALS CORP.
East Hanover, New Jersey 07936
An Equal Opportunity Employer M/F/H/V

SANDOZ
bringing research to life

The Sterling Research Group, the worldwide pharmaceutical research and development organization of Sterling Drug Inc., announces openings for a Postdoctoral Fellow and Research Scientists in the Drug Delivery Department at its Great Valley, PA facility, near Philadelphia.

The Drug Delivery Department is establishing an in vitro research program directed toward site specific drug delivery. The initial phase of this program will focus on elucidating factors that influence cellular uptake and endocytic routing of macromolecules and polymeric nanoparticulates. The Department is seeking:

POSTDOCTORAL FELLOW: To study and develop molecular probes for various cellular organelles that play a role in targeting macromolecules to specific cellular destinations. The successful candidate will be a recent Ph.D. in biological sciences who has expertise in state of the art techniques in cell and molecular biology. (When responding to this advertisement, refer to position G.)

RESEARCH SCIENTIST: A B.S. or M.S. degree with a minimum of 3-5 years of experience in general biochemical techniques such as gel electrophoresis, protein purification, and subcellular fractionation. (When responding to this advertisement, refer to position H.)

RESEARCH SCIENTIST: A B.S. degree with a minimum of 3-5 years of experience, skill in processing tissue for transmission electron microscopy, and exposure to tissue culture techniques. (When responding to this advertisement, refer to position I.)

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

STERLING RESEARCH GROUP
A Division of Sterling Drug Inc.,
9 Great Valley Parkway, Great Valley, PA 19355
A Subsidiary of
EASTMAN KODAK COMPANY
An equal opportunity employer
POSITIONS OPEN

PHYSIOLOGIST

Applications are invited for a full-time position in the Department of Physiology. The individual filling this position is expected to have an active fundable research program in cardiovascular, neurotransmitter, or renal physiology. Other areas of specialization will be considered. A priority of our program is on delivering a high quality of teaching to our medical students. The school has special commitments to increasing the number of physicians from presently underrepresented minority groups, to emphasizing the role of primary care, and to training for community-based primary care service to underserved urban areas of New York City. The position is currently available. Salary and rank commensurate with experience. Closing date for applications is 14 October 1988, or until a suitable candidate is found. Send curriculum vitae to: Dr. Stanley Kaliner, Chairman, Department of Physiology, PP, CUNY Medical School, 138th Street and Convent Avenue, New York, NY 10031.

Equal Opportunity/Affirmative Action Employer M/F

POSTDOCTORAL FELLOWSHIP is available immediately for a recent Ph.D. to explore the sequence specificities of reactions that generate reactive metabolites of hydrocarbon carcinogens and DNA. Candidate should be interested in the problems of carcinogenesis and should submit curriculum vitae and names of three references to:

Dr. Anthony Dipple
Bionetics Research Inc.
Basic Research Program
NCH-PCRF P.O. Box B
Building 538
Frederick, MD 21701

YALE UNIVERSITY
SCHOOL OF MEDICINE
DEPARTMENT OF
THERAPEUTIC RADIOLOGY

POSTDOCTORAL FELLOWSHIP: Exciting opportunity for Ph.D. with background in protein biochemistry/molecular biology and interest in vascular biology or cell motility to join a vascular cell biology laboratory at Yale Medical School. Current investigations center around isolation, characterization, and cloning of vascular cell migration factor(s). Academic appointment and competitive salary. Please send curriculum vitae to: Dr. Elliot M. Rosen, Department of Therapeutic Radiology, 132 HRT, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510.

POSTDOCTORAL POSITION available immediately to study human epithelial cell transformation, differentiated function, and the molecular genetics of cystic fibrosis. The program will involve biochemical and genetic characterization of primary and transformed epithelial cells with emphasis on differentiated function and regulation of gene expression. Background in mammalian molecular biology, recombinant DNA techniques, pulsed field gel electrophoresis, cytogenetics, and/or chemical carcinogenesis desirable. Send curriculum vitae, brief description of research interests, and names of three references to: Dr. Dieter Gruenert, Cardiovascular Research Institute/Cancer Research Institute, Box 0230, University of California Medical Center, San Francisco, CA 94143. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to join research team studying MULTIDRUG RESISTANCE (MDR) in human tumors. Areas involve the molecular biology, enzymology and pharmacology of 'multidrug resistance' (MDR), associated with alterations in topoisomerase II activity. St. Jude Children's Research Hospital is a multidisciplinary biomedical research center with many opportunities for scientific interactions. Annual salaries are commensurate with experience, and begin at $22,000. Send curriculum vitae and names of three references to: William T. Beck, Ph.D., Department of Pharmacology, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38101.

St. Jude Children's Research Hospital is an Affirmative Action/Equal Opportunity Employer.

PHARMACEUTICAL RESEARCH

Anaquest, a division of The BOC Group, is a recognized leader in the development and manufacture of specialized drug products for anesthesia and critical care. The continued growth of our research program has provided career opportunities for professionals in the following areas:

Cardiovascular Research Supervisor
PhD in Pharmacology or other life science and 1-3 years of postdoctoral or industrial experience is necessary. You will assess hemodynamic and respiratory effects of anesthesia related drugs. Experience with in vivo systems is preferred.

Cardiovascular Scientist
BS or MS level positions available. Knowledge of autonomic pharmacology and experience with cardiorespiratory and blood flow monitoring is desired.

EEG Analyst
MS in Pharmacology, Physiology or other life science needed to assess the effects of anesthesia related drugs on electro encephalographic activity (EEG). Prior experience with EEG techniques and methods in either an industrial or academic setting is required.

At Anaquest you will enjoy our competitive compensation package which includes excellent salaries and comprehensive benefits as well as an environment filled with talented individuals. For consideration please send your resume to: Anaquest, Personnel Supervisor, Human Resources, 100 Mountain Avenue, Murray Hill, New Jersey 07974.

An equal opportunity employer.

Anaquest
BOC Health Care

Director
Occupational & Environmental Health Services

Yale University seeks an individual to oversee the University’s Division of Occupational and Environmental Health Services, which comprises a number of departments related to special safety disciplines, including Radiation Safety, Chemical Safety, Biological Safety, and Occupational Safety. The Director provides leadership, planning and direction for the staff of the Division, and serves as liaison between the Division and other units of the University, the New Haven community and governmental health and safety officials. Responsibilities will include:

- Implementing safety and training programs to achieve a safe working environment for students and employees
- Overseeing compliance with applicable governmental safety regulations
- Developing and administering the Division’s budget
- Serving on appropriate University safety committees

Qualifications include a Doctorate in medicine, public health or other discipline related to the professional activities of the Division. A Master’s degree in one of those fields and exceptional experience may be considered as an alternative. Significant experience in an academic or research setting in one or more of the safety disciplines represented by the Division is desired.

Liberal fringe benefit program includes 1 month vacation, 13 holiday/recess days, comprehensive group health and life insurance, pension plan and tuition assistance.

Send resumes to: C.E. Parler, Yale University Department of Human Resources, 155 Whitney Ave., P.O. Box 1404, Yale Station, New Haven, CT 06520.

Yale University is an affirmative action, equal opportunity employer.
FACULTY POSITIONS IN
MOLECULAR BIOLOGY
AND BIOCHEMISTRY

Applications are invited for tenure-track faculty positions at the assistant or associate professor level in the Department of Molecular Biology at the Northwestern University Medical and Dental Schools. Applicants should have a Ph.D. degree in molecular biology, biochemistry, genetics, or a related area or an M.D. or D.D.S. degree and also have several years of postdoctoral training. The successful applicants will be expected to establish vigorous independent research programs and to participate in the teaching of graduate, medical and/or dental courses and in the training of graduate and postdoctoral students. Applicants should send complete curriculum vitae, a brief description of previous and future research and teaching interests (three to four pages), a bibliography and reprints of significant published work or preprints of manuscripts in press, and recommendations from at least three references by 31 October 1988 to:

Dr. Robert H. Rownd
Professor and Chairman
Department of Molecular Biology
Northwestern University
Medical and Dental Schools
383 E. Chicago Avenue
Chicago, Illinois 60611

Northwestern University is an equal opportunity/affirmative action employer and invites applications from all qualified individuals.

U.S. Department of Energy

Morgantown Energy Technology Center
Pittsburgh Energy Technology Center

The DOE Energy Technology Centers offer challenging opportunities for training in fossil energy research and engineering activities.

The programs introduce participants to current technologies, and extensive and modern research facilities.

At the Centers, the U.S. Department of Energy provides part-time and sabbatical appointments for university and college faculty research experience for Ph.D. and M.S. postgraduates funded thesis and dissertation research and research participation for graduate students professional internship programs and research participation for graduate and undergraduate students

Participants come from various academic fields, including chemistry, engineering, geology, physics and other scientific fields.

Write to
Fossil Energy Research Opportunities
University Programs Division
Oak Ridge
Associated Universities
P.O. Box 117
Oak Ridge, TN 37831-0117
or call (615) 576-3456

NOTE: Indicate your academic status.
This is an equal opportunity program open to all qualified persons without regard to race, color, age, religion, sex, national origin, handicap, or being a disabled veteran or a veteran of the Vietnam era.

Neurobiology of Schizophrenia

Columbia University and New York State Psychiatric Institute are seeking an outstanding Assistant or Associate Professor level candidate to initiate an innovative state-of-the-art research program exploring basic mechanisms of schizophrenia. Research interests may be in neuropathology, molecular neurobiology, cellular or systems physiology, or molecular psychopharmacology. The successful candidate would join four groups pursuing interest in (i) cell biology of glia and neurodegenerative diseases, (ii) neurophysiology of the mesolimbic dopamine system, (iii) receptor biochemistry and developmental determinants of dopamine system maturation, and (iv) pathological effects of somatic treatments on cultured cells. Joint appointments in Psychiatry, Neuropathology, one of several basic science departments and/or the Center for Neurobiology & Behavior are possible. Competitive salary with liberal benefits offered.

Address inquiries to: Neuropathology Search Committee, c/o Dr. Stephen Rayport, N.Y. State Psychiatric Institute Box #62, (212) 960-5571. Additionally, applicants should forward CV's to: Mr. Joseph Borgovini, Personnel Office, N.Y. State Psychiatric Institute Box #57, 722 W. 168th St., New York, NY. 10032. This NY. State Office of Mental Health Facility is an AA/EOE.

RESEARCH Opportunities
faculty, students, graduates, postgraduates

STAFF POSITIONS
DEPARTMENT OF CELL AND DEVELOPMENTAL BIOLOGY

ROCHE INSTITUTE OF MOLECULAR BIOLOGY

As part of a new expanded program in developmental biology, applications are invited for several positions equivalent in rank to Assistant and Associate Professor. Candidates are sought who are applying contemporary experimental approaches to basic research in developmental biology. Institute staff enjoy total freedom and independence in their choice and pursuit of research problems, as well as full funding of their research programs, including postdoctoral fellowships, by Hoffmann-La Roche. The Institute is located in a suburban setting only 10 miles west of New York City. Send curriculum vitae, names of three references, and summary of research interests to: Dr. Paul Wassarman, Chairman, Department of Cell and Developmental Biology, Roche Institute of Molecular Biology, Nutley, New Jersey 07110. We are an equal opportunity employer.

Roche Institute of Molecular Biology
Hoffmann-La Roche Inc.
POSDOCtorAL POSITION

Postdoctoral position available for individuals with a Ph.D. or M.D. interested in cell biology of AIDS. Located for an independent scientist who wants to explore where lymphocytes and macrophages enter and leave the male and female reproductive tracts. The principal techniques include immunelectron microscopy and immunocytochemistry by autoradiography. Send curriculum vitae and the names of three references or contact: Dr. David M. Phillips, The Population Council, Center for Biomedical Research, 1230 York Avenue, New York, NY 10021. Telephone: 212-570-8744.

University of Wisconsin Madison

Postdoctoral position available to study ion channel regulation in x-rno glutal interactions. Projects explore plasticity of glutal ion channels and its link to myogenic and prolactina behavior. Patch-clamp recordings of glial channels will be made in purified cultures, in neurone-glia co-cultures, and in neuronal mutants. Changes in intracellular (Ca2+)-filing is a glutal axon can be measured with cytoplasmic-trapped fluorescent probes. Experience in patch-clamp, molecular biology, or Ca2+ imaging highly desirable.

Send curriculum vitae and names of three references to: Dr. S. I. Chu, Department of Neurophysiology, 283 Medical Sciences Building, 1300 University Avenue, Madison, WI 53706. An Affirmative Action/Equal Opportunity Employer.

University of Colorado

Postdoctoral position available immediately in Arteriosclerosis SCCR program to investigate the regulation of lipoprotein metabolism and atherosclerosis, using biochemical and molecular biological approaches. Minority applicants desired. Send curriculum vitae to:

Dr. Alan Tall
Department of Medicine, University of Colorado Hospital, 4200 East 9th Avenue, Denver, CO 80262

University of Missouri-Columbia

Postdoctoral position available 1 December 1988 for NIH-funded studies of free radical processes in Photodynamic Therapy. Must have background in Electron Spin Resonance, Spin Label and/or Spin Trapping providing and knowledge of Photochemistry required. Salary competitive and based on experience. Respond to Dr. M. E. Grace, Ph.D., National Biomedical EFR Center, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226. Equal Opportunity Affirmative Action Employer M/F/H.

Postdoctoral position

The Dana-Farber Cancer Institute is seeking to fill a research position at the postdoctoral level in the Division of Cancer Pharmacology. Candidate will study the biochemistry and molecular regulation of mammalian protein kinases. The candidate will work with several P-450 enzymes active in the metabolism of cholesterol, steroid hormones, and xenobiotics using biochemical and molecular biology approaches. Experience in biochemistry, molecular biology or enzymology highly desirable. Joint appointment will be held in the Department of Biochemistry and Molecular Pharmacology at Harvard Medical School. Start date: January 1989. Send curriculum vitae, copies of representative publications, and names of three references to: Dr. David J. Waxman, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. An Equal Opportunity Employer.

Postdoctoral Position

POSTDOCTORAL POSITION available immediately to study structure-function relationships in enzymes which are integral membrane proteins. Experience with recombinant DNA techniques required. Send curriculum vitae and names of three references to: Dr. David Zackheim, 1227 Saw Mill River Road, P. 231, Cornell University Medical College, New York, NY 10021. Equal Employment Opportunity/Affirmative Action M/F/H/W/V.

POSTDOCTORAL POSITION

WASHINGTON STATE UNIVERSITY

Candidates are being sought for a postdoctoral position in the department of Biochemistry. Interested candidates should contact the following: Dr. Thaddeus Dost, Chair, Department of Biochemistry, 1593 Washington State University, Pullman, WA 99164-6100. Telephone: 509-335-2139. WSU is an Equal Opportunity/Affirmative Action Educator and Employer. Protected group members are encouraged to apply.

POSTDOCTORAL POSITION

WASHINGTON STATE UNIVERSITY

Candidates are being sought for a postdoctoral position in the department of Biochemistry. Interested candidates should contact the following: Dr. Thaddeus Dost, Chair, Department of Biochemistry, 1593 Washington State University, Pullman, WA 99164-6100. Telephone: 509-335-2139. WSU is an Equal Opportunity/Affirmative Action Educator and Employer. Protected group members are encouraged to apply.

POSTDOCTORAL POSITION

POSTDOCTORAL POSITION available immediately to study cell selection, migration, activity and interaction during wound healing. Biological questions relating to cell biology and cell-cell or cell-matrix interactions. Ability to work with rodents required with experience in cell separation and culture techniques, cell identification and cloning required. Send curriculum vitae and three references to: Adrian Barbul, M.D., Department of Surgery, Sinai Hospital of Baltimore, 2401 West Belvedere Avenue, Baltimore, MD 21215.

POSTDOCTORAL POSITION available immediately to study the synthesis and regulation of fibrocartilage proteoglycan core protein. A background in cell biology or molecular biology is required. Experience in recombinant DNA techniques is desirable. Send curriculum vitae and three references to: Richard J. Webber, Ph.D., Director, The Center For Musculoskeletal Research, Slot 517, University of Arkansas For Medical Sciences, 4301 West Markham Street, Little Rock, AR 72205.

POSTDOCTORAL POSITION

POSTDOCTORAL POSITION available immediately to study the molecular biology of salt tolerance in alfalfa, with emphasis on the regulation of transcription of nuclear genes coding for proteins involved in photosynthesis. A Ph.D. in molecular biology or biochemistry preferred. Experience in recombinant DNA techniques and sequencing is also desirable. Deadline for applications is 1 November 1988. Send letter of application, curriculum vitae, and names of three references to: Dr. Ilga Winiczov and Jeffrey Segall, Department of Biochemistry, University of Nevada, Reno, NV 89557. The University of Nevada is an Equal Opportunity/Affirmative Action Employer. UNR employs only U.S. citizens and aliens lawfully authorized to work in the U.S.

University of Colorado

POSTDOCTORAL POSITION

POSTDOCTORAL POSITION available immediately to study yeast molecular biology. Two positions are available to study the molecular mechanisms of protein targeting, nuclear and mitochondrial gene expression, and mitochondrial assembly in Saccharomyces cerevisiae. Candidates should have a Ph.D. in biochemistry, molecular biology, or microbiology and should have experience in the following areas: yeast or prokaryotic genetics; recombinant DNA techniques; in vitro gene expression; polynucleotide preparation/use; protein isolation. Send curriculum vitae and names of three references to: Dr. Robert O. Potton, Department of Molecular, Cellular, and Developmental Biology, Campus Box 347, University of Colorado, Boulder, CO 80309. The University of Colorado is an Equal Opportunity Employer.

POSTDOCTORAL POSITION

POSTDOCTORAL POSITION for investigation of calcium-mediated growth factor responses in bone and bone matrix. A Ph.D. in biochemistry, molecular biology, or radiation biology is required. Experience with calcium-phosphatidylinositol second messenger system and interactions with the CAMPP second messenger system is advantageous. Three references are required. Send curriculum vitae and names of three references to: Dr. David H. Stern, Department of Pharmacology, Northwestern University Medical School, Chicago, IL 60611. An Equal Opportunity/Affirmative Action Institution.

POSTDOCTORAL POSITION

POSTDOCTORAL POSITION available in July 1989. Research is on the chemistry, biosynthesis, and function of the vitamin K-dependent proteins Bone GlA Protein (Osteocalcin) and Matrix GlA Protein. The candidate must have a recent Ph.D. in a related field. Experience with cell culture and protein purification is desirable. Funding is available for up to 4 years. Send curriculum vitae and three letters of recommendation to: Satoru Ken-Kaminoh, Biochemistry Department, University of Tennessee, Memphis, 800 Madison Avenue, Memphis, TN 38163. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

POSTDOCTORAL POSITION, molecular bio/geo- gene regulation, University of Massachusetts Medical School (UMMC), Worcester—A postdoctoral research position is available immediately for studies on the molecular mechanisms regulating bile acids metabolism using biochemical and recombinant DNA techniques. Send curriculum vitae and three letters of recommandation to: Dr. William C. Sc Cookie, Department of Biochemistry, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester MA 01655. UMMC is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

POSTDOCTORAL POSITION available to study the mechanisms of absorption of inhaled vapors under U.S. Food and Drug Administration control, biochemistry, physiology, toxicology, or related areas with strong interest in broadening research skills is required. Successful candidate will be expected to develop expertise in the research area and contribute to this area by devising research protocols and writing manuscripts. One-year appointment, renewable for second year with third year possible as long as $21,000 per annum plus medical benefits and relocation assistance provided. U.S. citizenship or permanent residency required. Contact: Dr. Alan B. Dahl, Lovelace Biomedical and Environmental Research Institute, P.O. Box 5890, Albuquerque, NM 87185. An Equal Opportunity/Affirmative Action Employer.

University of Colorado

POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITIONS available starting February to July, 1989 to study the molecular basis of insulin action, and the action of related hormone/growth factors. Ongoing projects include structure/function studies of the insulin and EGF receptors and cloning insulin and IGF-related growth factor/IGF-like receptor cDNA's. A second major focus is to determine how certain cells maintain a unique insulin-sensitive organelle that moves to the cell surface in response to insulin. Proteins will be purified and cloned from this organelle as a starting point. Please send curriculum vitae to: Dr. Paul F. Pitch, Department of Biochemistry, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118.

University of Colorado

POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITIONS are available to study the genetic regulation of limb development and chondrogenesis as part of an NIH-funded multidisciplinary program project. Projects include the basic molecular regulation of gene expression during limb development and pattern formation; the role of extracellular matrix proteins and growth factors in limb development; use of retroviral vectors to study cis- and trans- acting regulatory elements; genetic linkage studies and molecular analysis of human skeletal dysplasias and mutations in human skeletal dysplasias. Investigators include Drs. S. Clark, R. Kosher, A. Lichten, D. Rowe, M. Tanzer, P. Tsiporou, and W. Upholt. Experience in recombinant DNA techniques and/ or cell-matrix interactions considered desirable. Send curriculum vitae and names of three references to: Dr. David W. Rowe, Department of Pediatrics, University of Colorado Health Center, Farmington, CT 06030. An Affirmative Action/Equal Opportunity Employer M/W/H.

University of Colorado

POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITIONS are available to study the genetic regulation of limb development and chondrogenesis as part of an NIH-funded multidisciplinary program project. Projects include the basic molecular regulation of gene expression during limb development and pattern formation; the role of extracellular matrix proteins and growth factors in limb development; use of retroviral vectors to study cis- and trans- acting regulatory elements; genetic linkage studies and molecular analysis of human skeletal dysplasias and mutations in human skeletal dysplasias. Investigators include Drs. S. Clark, R. Kosher, A. Lichten, D. Rowe, M. Tanzer, P. Tsiporou, and W. Upholt. Experience in recombinant DNA techniques and/ or cell-matrix interactions considered desirable. Send curriculum vitae and names of three references to: Dr. David W. Rowe, Department of Pediatrics, University of Colorado Health Center, Farmington, CT 06030. An Affirmative Action/Equal Opportunity Employer M/W/H.
Molecular Biologists/Virologists
Infectious Disease Research
Department of Virology

Bristol-Myers has a broad program in antiviral research, encompassing diagnostics, prophylactics and chemotherapeutics. The Department of Virology of the infectious disease research program is committed to the discovery and development of novel chemotherapeutic agents of natural, semi-synthetic or synthetic origin. We are now entering a new phase with several candidate antiviral agents already under clinical evaluation.

To ensure our future growth and success, we are now expanding in the field of MOLECULAR VIROLOGY. Initially, the molecular virology group will consist of six scientists, and will collaborate with scientists at Wallingford in medicinal chemistry, in vitro and in vivo evaluation, biochemistry, and immunology of antiviral agents. Furthermore, interactions with other Bristol-Myers laboratories at Oncogen in Seattle (involved with vaccines and other immunological approaches) and at the Bristol-Myers Research Institute in Tokyo, Japan (which has a broad-based fermentation screening program) will be important for this group. If you want to join our active, motivated and successful antiviral research program and think you can contribute to the discovery of new antiviral agents and help develop novel strategies, you should contact us.

We are looking for top quality, highly motivated candidates to fill the following positions:

**SENIOR RESEARCH SCIENTIST**
To lead the molecular virology group. Qualifications: Ph.D. in molecular biology or molecular virology; 5-10 years of post-doctoral experience; experience with viral glycoproteins, retroviruses, vector biology and immunological techniques; a good record of publications; good communicative and supervisory skills.

**RESEARCH SCIENTIST**
To develop a strong research program in molecular biology related to antiviral drug development. Qualifications: Ph.D. in molecular virology; 2-4 years of post-doctoral experience with retroviruses or other RNA-viruses; a sound understanding of biochemistry.

**POST-DOCTORAL RESEARCH FELLOWS (2)**
Qualifications: Ph.D. in molecular biology, biochemistry or immunology; experience with immunological techniques and/or site-directed mutagenesis are assets.

**ASSISTANT/ASSOCIATE RESEARCH SCIENTISTS (2)**
Qualifications: B.S. or M.S.; hands-on laboratory experience with biochemical and molecular techniques; experience with cell culture work and isotope techniques.

We offer excellent research facilities in superbly equipped laboratories in a new research complex; an interactive, fertile and interdisciplinary scientific environment; a commitment towards antiviral drug development, an excellent salary and a comprehensive benefits package.

For confidential consideration forward your resume, and salary history to:
Bristol-Myers Company
Pharmaceutical Research and Development Division
Dept. SS6-SC9, 5 Research Parkway
Wallingford, CT 06492
An equal opportunity employer
**Technical Manager**

**Protein and Nucleotide Core Facility**

Immediate opening for Technical Manager to supervise multi-user protein and nucleotide core facility jointly run by the Woods Hole Oceanographic Institution and the Marine Biological Laboratory. The facility will contain state-of-the-art protein sequencing, and peptide and nucleotide synthesis equipment.

Candidate should have a higher degree in Chemistry or Biochemistry with experience in at least two of the above areas, be expected to participate in training workshops, and assist in promoting facility use.

Curriculum Vitae and names and addresses of three references to:

Personnel Manager
Box 54P

**WOODS HOLE OCEANOGRAPHIC INSTITUTION**

Woods Hole, MA 02543
An equal opportunity employer M/F/H/V

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**SENIOR RESEARCH ASSOCIATE**

**Toxicology Studies**

At Baxter Healthcare Corporation, our R&D investment begins with our people. We have an exceptional team of scientists and other technical professionals bringing depth to our vast product lines. We're also investing in state-of-the-art facilities, new development and seeking out future possibilities. Now within our Applied Technologies Group, we seek a Senior Research Associate to support our efforts in the testing of new drugs and devices. Our technical R&D center is located in Round Lake, Illinois, an attractive community near Chicago.

Responsibilities include study director for preclinical toxicology studies in laboratory animals. Author protocols and reports in compliance with GLP's. Supervise conduct of studies and organize and analyze data. Author literature reviews or technical reports on hazard and risk assessment of chemicals and biologicals. M.S. in biological sciences (Ph.D. preferred). Technical knowledge of toxicology, animal medicine and pathology. Skills in computer use and statistics desired. DABT eligible.

Baxter employees enjoy a competitive salary and comprehensive benefit program including relocation assistance, tuition reimbursement, 401(k) and stock purchase. For confidential consideration, please forward your resume and salary history to: Pamela Miller, Human Resource Director (WG1-1H), Baxter Healthcare Corporation, Route 120 and Wilson Road, Round Lake, IL 60073. Equal Opportunity Employer.

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**PROTEIN BIOCHEMIST**

Pitman-Moore, Inc., a leading animal health company, has a challenging opportunity for a Protein Biochemist with experience in peptide mapping of proteins.

The successful candidate will have a M.S. in protein biochemistry or equivalent experience, excellent written and verbal communication skills and supervisory experience. Extensive experience in preparation of protein digests, HPLC separation of proteins and peptides, and interpretation of tryptic peptide maps is required. Knowledge of protein sequencing (ABI 477A) and amino acid analysis is also desirable.

As a member of the Bioanalytical Research Section, the successful candidate will join a dynamic research group that is solving problems related to biotechnology, drug delivery, and new product development. This individual will report to a scientist who is a recognized expert in protein primary structure analysis.

Salary will be commensurate with experience and includes a complete benefits package. Please send resume and list of publications in confidence to:

Mr. M.G. Ray, Pitman-Moore, Inc., P.O. Box 207, Terre Haute, IN 47808 An Equal Opportunity/Affirmative Action Employer
BS/MS SCIENTISTS
Pharmacologist/Drug Metabolism

For more than a century, scientists at ELI LILLY AND COMPANY have
developed innovative, high quality pharmaceutical products. In 1988, Lilly
is investing over $500 million in research-and-development programs.
More than 3,000 scientists at the company’s Lilly Research Laboratories
and Biochemical Development Divisions are pursuing creative research
programs that involve many important health care needs.

To further build its research capabilities, Lilly is seeking self motivated,
innovative scientists to work with senior investigators studying chemical
transformations in biological systems. The ideal candidate will have the
following qualifications:

- Bachelor’s or Master’s degree in analytical chemistry, biochemistry, or
  a related discipline.
- Experience in developing and implementing quantitative bioanalytical
  methods to study absorption, distribution, metabolism, and excretion
  of potential new drugs in animal models.
- Excellent organizational and communication skills.
- Experience with HPLC, computer data systems, radiochemicals, and
  immunoassays also desired.

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

For prompt consideration, please forward your resume to:

Maria L. Poor
Science Recruitment (AP2)
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, Indiana 46285

POSITION ANNOUNCEMENT
CELL AND MOLECULAR BIOLOGISTS

The Department of Cell and Structural Biology at the University of Illinois,
Urbana-Champaign, is continuing the expansion of its faculty; Several
new tenure-track faculty will be recruited over the next few years at the
Assistant Professor level. One position is available for the 1989-1990
academic year, with a starting date of August 1, 1989. Applicants should
hold the Ph.D. degree or equivalent, and show exceptional promise in
research, which preferably should address molecular issues in develop-
mental, neural, or cell biology. Salary will be commensurate with rank
and experience. Duties will include participating in the teaching of
eukaryotic cell and molecular biology. Substantial start-up funds and
laboratory facilities will be available to initiate new faculty research
programs, for which the UIUC offers exceptional and broad-based
supporting resources. These resources include the Center for Electron
Microscopy, with state-of-the-art instrumentation; the Center for Bio-
technology, which includes facilities for molecular cloning and DNA and
protein synthesis and sequencing; the Cell Science Center, which
houses and staffs a hybridoma facility and flow cytometry unit; School of
Life Sciences-subsidized shops; and a superb university library system,
the third largest in the nation. The UIUC is a National Center for
Supercomputing Applications, and is home to the Beckman Institute for
Advanced Science and Technology, which combines research in the
physical and biological sciences. Many other units within the Schools of
Life Sciences and Chemical Sciences, and the Colleges of Medicine and
Engineering offer opportunities for interactions in the cellular and mol-
ecular sciences. Urbana-Champaign combines the residential advan-
tages of a medium-sized city (population 120,000) with outstanding cul-
tural amenities within the University, and its location in east-central
Illinois gives easy access to the cities of Chicago and St. Louis.

Applicants are requested to send a curriculum vita, a summary of
research interests, and three letters of reference to:

David L. Blooem, Search Committee Chairman
Department of Cell and Structural Biology
University of Illinois
506 Morrill Hall
505 South Goodwin Avenue
Urbana, Illinois 61801
Telephone: (217) 333-6118

In order to ensure full consideration, applications should be received by January 15, 1989.
Interviews may be conducted before January 15, 1989, but all applications received by that date
will receive full consideration and the final selection will not be made until after that date. The
University of Illinois is an Affirmative Action, Equal Opportunity Employer.
POSTDOCTORAL POSITION IN CLINICAL NUTRITION. Studies ongoing are related to fatty acid metabolism, microvascular platelet endothelial cell interaction, lipoprotein metabolism and flow parameters in Raynaud's disease. Current position vacant and number of three references with telephone numbers to: Dr. Geta Bruckner, Chairman; Department of Clinical Sciences, Division of Clinical Nutrition, Medical Center - Annex to the University of Kentucky, Lexington, KY 40536-0080.

POSTDOCTORAL POSITION(S) IN DEVELOPMENTAL GENETICS available for 1989 to study cell-cell interactions involved in neuronal lineage commitment in the frog. We use single cell microinjection, transplantation, and biochemical techniques to examine the role of lineage in neurotransmitter determination and neuromuscular specificity. Send curriculum vitae and three letters of recommendation to: Dr. Sally A. Moody, Department of Anatomy and Cell Biology, Box 439 Medical Center, University of Virginia, Charlottesville, VA 22908.

POSTDOCTORAL POSITIONS IN LANDSCAPE ECOLOGY available at Colorado State and New Mexico for research on ecological scaling and animal movement in habitat mosaics. Experience in spatial models of animal dispersal, GIS, fractals, and diffusion models desirable. Send for information or apply (two sets: curriculum vitae, three letters of recommendation, publication list and research interests) to: Dr. John A. Wiens, Department of Biology, Colorado State University, Fort Collins, CO 80523. (BITNET: BEAOHN@CSUGREEN).

POSTDOCTORAL POSITIONS in neuroimmunology/neuro-oncology available immediately in 1989 to study the immune response to neural antigens. Focus is on neural tumors and autoimmune disorders. Send resume with reprints and names of three references to: Dr. Karl J. Wiens, Department of Neurologic Diseases, Biosciences Research Building, Brigham and Women's Hospital, Boston, MA 02115. An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available immediately and in early 1989 to study the mode of action, delivery and targeting of drugs, DNA-binding agents and biologic response modifiers at cellular and in vivo levels using antibodies, glycopeptides, oligonucleotides, hormones and liposomes. Recent Ph.D. Experience in protein chemistry, organismal synthesis, cell culture, molecular biology, and biodistribution of vector systems is helpful. Send resume and three letters of recommendation to: Dr. Karl J. Hwang, Drug Targeting Research Program, Department of Radiation Oncology, University of Southern California, 1985 Zonal Avenue, Los Angeles, CA 90033. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available for multidisciplinary studies of photoreceptor cell biology and retinal degenerations. Cultures of photoreceptors isolated from normal and mutant animals are being used for studying regulation of their survival and differentiation (by cell-cell interactions, trophic factors, extracellular molecules, and retinoids and other lipids), as well as mechanisms of cell polarity and the expression of membrane and transfectants. Acceptable backgrounds include cell biology, developmental biology, biochemistry, genetics, cell or molecular neurobiology. Please mail curriculum vitae, research interests, and names of three references to: Dr. Ruben Adler, Willmer Institute, Johns Hopkins University School of Medicine, Baltimore, MD 21205.

POSTDOCTORAL POSITIONS for cell-developmental biologists to study the role of growth factors and cytoskeletal organization in connective tissue differentiation (particularly cartilage and bone) during craniofacial and limb development or cell-extracellular matrix interactions during cell migration in the sea urchin embryo. Biochemical and immunohistochemical techniques preferred. Send resume and three references to: Dr. Michael Solursh, Department of Biology, University of Iowa, Iowa City, IA 52242. The University of Iowa is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE position in the Biology Department at Harvard School of Public Health available for 2 or more years to study the distribution, coexistence and regulation of neurotransmitters in visceral sensory neurons of the vagus and glossopharyngeal nerves. Applicant should be a Ph.D. with research experience with neurotransmitters, cellular neuroanatomy and regulation of autonomic function is essential. Experience with immunocytochemistry, retrograde tracing, RIA, and/or in situ hybridization histochemistry is desirable. Salary is competitive and commensurate with experience. Send curriculum vitae, three recent references of research interest and number of three references to: Dr. C. J. Hebe, Department of Pharmacology (c/o Personnel), Uniformed Services University of the Health Sciences (USUHS), 4301 Jones Bridge Road, Bethesda, MD 20814.

PROTEIN BIOCHEMIST with excellent scientific credentials to develop his/her own program preferably in the areas of growth factors or receptors to qualify for a tenure-track position at any professorial rank. Submit curriculum vitae, a short statement of future plans, and three references to: Dr. Gerald Litwack, Department of Biochemistry, Harvard Medical School, 200 Longwood Avenue, Boston, MA 02115.

POSTDOCTORAL RESEARCH ASSOCIATE The Division of Radiation Biology, Department of Radiation Oncology, Stanford University School of Medicine has an opening for a tumor biologist at the research associate level. Successful candidate will join research team investigating the role of tumor blood flow and also agents that affect hemoglobin-oxygen binding. Experience with assays of animal tumors, culture of mammalian cells, and basic biochemical procedures is sought. Salary: $25,000 per year, depending on experience. Applicants should submit curriculum vitae and names of three references to: Dr. J. Martin Brown, Division of Radiation Biology, Department of Radiation Oncology, Stanford Medical Center, Stanford, CA 94305.

Stanford University is an Equal Opportunity Employer and welcomes nominations of women and minority group members and applications from them.

POSTDOCTORAL RESEARCH ASSOCIATES Postdoctoral position are available for studies on the cellular mechanisms of cholesterol and retinoids with a focus on (i) characterization and purification of hepatic cholesterol ester and retinyl ester hydroxylases, (ii) the role of cellular retinoid binding proteins in retinol transport, and (iii) retinoid metabolism in the breast cultured cell models. Applicants should have recent training in protein chemistry, immunological methods, purification isolation, membrane characterization, or relevant experience in cell biology and differentiation. Please submit a letter describing training and future goals, curriculum vitae, and names of three references to: Dr. A. Catherine Ross or Dr. Earl Harrison Department of Physiology and Biochemistry The Medical College of Pennsylvania 3300 Henry Avenue Philadelphia, PA 19129

POSTDOCTORAL RESEARCH BIOCHEMIST/TOXICOLOGIST Position available to study mechanisms of action of neurotoxic agents. Candidates with Ph.D. in biochemistry, virology, neurobiology, or related field preferred. Send curriculum vitae and names of three references to: Dr. M. Anthony Verity, Center for Neurotoxicology, U.S. Army Medical Research and Development Command, 3100 East Sunset Road, Las Vegas, NV 89107. Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITION Available immediately (M.D. or Ph.D.) for research on the molecular basis of inherited immunodeficiency disease. The project will focus on X-linked severe combined immunodeficiency and should be recent Ph.D. graduate. Experience in molecular biology techniques is essential. Salary support is available for up to 3 years. Send curriculum vitae and names of three references to: Louis Markert, M.D., Ph.D., Department of Pediatrics, Duke University Medical Center, Durham, NC 27710. APharmaceutical/Affirmative Action position.

POSTDOCTORAL RESEARCH POSITION Available immediately (M.D. or Ph.D.) for research on the molecular basis of inherited immunodeficiency disease. The project will focus on X-linked severe combined immunodeficiency and should be recent Ph.D. graduate. Experience in molecular biology techniques is essential. Salary support is available for up to 3 years. Send curriculum vitae and names of three references to: Louis Markert, M.D., Ph.D., Department of Pediatrics, Duke University Medical Center, Durham, NC 27710. APharmaceutical/Affirmative Action position.

POSTDOCTORAL RESEARCH POSITION Available immediately (M.D. or Ph.D.) for research on the molecular basis of inherited immunodeficiency disease. The project will focus on X-linked severe combined immunodeficiency and should be recent Ph.D. graduate. Experience in molecular biology techniques is essential. Salary support is available for up to 3 years. Send curriculum vitae and names of three references to: Louis Markert, M.D., Ph.D., Department of Pediatrics, Duke University Medical Center, Durham, NC 27710. APharmaceutical/Affirmative Action position.
RESEARCH SCIENTISTS

Athena Neurosciences, Inc., located in the San Francisco Bay Area, is a biotechnology-based company committed to the discovery and development of new products to diagnose and treat diseases of the nervous system. Our research focuses on Alzheimer's disease and the delivery of drugs to the brain. We will be occupying our newly constructed facility in January of 1989 and this expansion has created the following opportunities to join our company.

**Cell Biology**—Two positions exist at the Ph.D. level for cell biologists. The first one requires a strong background in biochemistry. Qualifications include experience in cell culture, protein purification and characterization, as well as the design and implementation of tissue culture bioassays. (Ad #20)

The second position will require a Ph.D. or equivalent in cellular neurobiology, cell biology or biochemistry. Experience with tissue culture of nervous system or endothelial cells is highly desirable, as is familiarity with immunocytochemistry, membrane receptors and molecular trafficking in mammalian cells. (Ad #21)

**Enzymology**—One position is available at the Ph.D. or possibly M.S. level for an individual with proven experience in protease enzymology. Responsibilities will include proteolytic enzymatic assays and kinetic measurements. In addition, experience with routine biochemical and immunochemical techniques is desired. (Ad #22)

**Immunology/Biochemistry**—An individual is sought at the Ph.D. level who has proven leadership skills in the areas of immunology and biochemistry. The optimal candidate will have experience in the use of both monoclonal and polyclonal antibodies to resolve fundamental and applied biological problems. (Ad #23)

**Pharmacology**—Two positions are available in our pharmacology effort. The first is for an individual with a Ph.D. in pharmacology or related field with two or three years experience in pharmacokinetics related to CNS-active drugs. Experience with tumor models and receptor binding assays is desirable. (Ad #24)

The second position is for an individual at the B.S. or M.S. level in pharmacology or related areas such as physiology or toxicology. In vivo pharmacology and HPLC experience are essential. Studies will involve pharmacokinetics of CNS-active drugs. (Ad #25)

**Transgenics**—One individual is sought with a B.S. or M.S. in the biological sciences and three to five years of experience in the development of transgenic mice. Duties will include the design of experimental protocols, isolation, microinjection and implantation of ova. Experience with maintenance of breeding colonies is desirable. (Ad #26)

**Research Assistants and Associates**—Positions are available at the B.S. and M.S. levels in molecular biology, cell biology, media preparation, enzymology, protein purification and characterization. (Ad #27)

Athena Neurosciences is financially secure and backed by the most prominent and successful venture capitalists in the biotechnology industry. We are committed to scientific excellence and offer an exciting professional environment in addition to competitive salaries, benefits and equity participation. Please send a curriculum vitae to: Athena Neurosciences, Inc., 957-P Industrial Road, San Carlos, CA 94070. Please refer to the appropriate ad number in correspondence. An equal opportunity employer.
RESEARCH ASSOCIATE  (in New York, NY)  Perform research at the Laboratory of Biocatalytic Genes and Metabolism in connection with human apo B gene variation in a variety of clinic. disorders related to L.D.L. atherosclerotic disease.  This work will involve the investigation of human and microbial genomics with DNA from patients and by functional assay of apo B gene expression and DNA sequence determination. The position requires a Ph.D. or equivalent experience in biotechnology or related field. Experience in enzymology, dairy chemistry, growth hormone, or similar areas is advantageous.  The position requires that the individual have 3 to 5 years of management and supervisor experience in a laboratory setting. Applicants should submit resume, three letters of reference and salary requirements to: Personnel Manager, HyClone Laboratories, Inc., 1725 South Highway 89-91, Logan, Utah 84321.  HyClone Laboratories, Inc. is an Equal Opportunity Employer.


RESEARCH ASSOCIATE  To conduct pending projects in synthesis and expression of artificial peptides.  Must have Ph.D. and experience with manual and automated methods of DNA synthesis, separation, transfer, and expression and protein purification methodology.  If funded, initial appointment will be for 1 year, with renewal for a second.  Competitive salary and excellent benefits.  Applicant must be in compliance with current immigration law regarding legal residency and ability to take a position in the U.S.  Send current curriculum vitae, and names, addresses, and telephone numbers of three references to: Dr. Donald J. Frish, Department of Entomology, University of Minnesota, 1921 Holland Hall, 1980 Folwell Avenue, St. Paul, MN 55108.  A full position description is available on request.  UMN is an Equal Opportunity Educator and Employer.  Salary: $20,000.

RESEARCH ASSOCIATE—DEVELOPMENTAL PHARMACOLOGY:  Available immediately for preclinical studies of long term effects of prenatal exposure to psychotropic drugs.  Requires familiarity either with biochemical methods for study of monoamine neurotransmission or with operant behavior.  Send current vitae, description of research experience and names of three references by 1 November 1988 to: Brian A. McMillen, Ph.D., Department of Pharmacology, School of Medicine, East Carolina University, Greenville, NC 27834.  Requires possession of documentation of identity and employability at the time of employment.  It is requested this documentation be included with your application.  An Affirmative Action/Equal Employment Opportunity Employer.

RESEARCH ASSOCIATE/INSTRUCTOR position available to study molecular biology of streptococcal genes involved in virulence, metabolism and in defense against oxidative stress.  Graduate or postdoctoral experience with construction and screening of a expression libraries, DNA sequencing and oligonucleotide-directed mutagenesis, or heterologous expression of streptococcal gene products is preferred.  Salary will be commensurate with experience, negotiable.  Send curriculum vitae, list of publications, and names of three references to: Dr. Al Claiborne, Department of Biochemistry, Wake Forest University Medical Center, 300 South Hawthorne Road, Winston-Salem, NC 27103, Affirmative Action/Equal Employment Opportunities.

POSITIONS OPEN

RESEARCH BIOCHEMIST, Ph.D. needed to probe and characterize bacterial proteins. Must have strong background in protein biochemistry and experience in protein modification and peptide mapping strategies.  Some experience in monoclonal antibody techniques.  Send complete resumes to: Stericycle Techniques, P.O. Box 39173, Sarasota, FL 34236.

RESEARCH CLINICAL CHEMIST  Two research chemical clinician positions are available in the Clinical Chemistry Laboratory, California Department of Health Services, Berkeley, California.  One position is in Forensic Alcohol and Urine Drug Analyses; the other in Newborn and Prenatal Screening for Heritable and Congenital Diseases.  The research clinical chemist acts as a project leader to design and execute the activities of licensed and contract screening laboratories.  The requirements are either (i) a doctoral degree with specialization in biochemistry, clinical chemistry, or a closely related subject, or (ii) a master's degree with specialization in biochemistry, clinical chemistry, or a closely related subject and 3 years of research experience within the last 5 years in clinical chemistry or (ii) master's degree with specialization in biochemistry, clinical chemistry, or a closely related subject and 3 years of research experience within the last 5 years in clinical chemistry.  Experience with laboratory computers preferred.  The salary range is $28,000 to $46,000 per year.

RESEARCH SCIENTIST:  Career professional research staff position in (i) microbial physiology/genetics or (ii) biogeochecology to develop new research program in applying molecular or chemical techniques to solving problems of environmental significance at the interfaces between aquatic ecology, cellular/molecular biology, microbiology, marine biology.  The potential exists for a concurrent tenure or tenure-track faculty appointment in chemistry, biology or geology, subject to approval.  Qualifications:  Ph.D., superior academic and research capabilities, and proven record in establishing and maintaining extramural funding.  Interests that bridge field and laboratory research are desirable.  Salary commensurate with experience and qualifications.  Send current curriculum vitae, selected reprints and the names, addresses, and telephone numbers of three references, by 30 November 1988 to: James H. Brown, Department of Biology, University of California, Davis, CA 95616.  Salary: $27,500 to $37,500.

RESEARCH TECHNOLOGIST  American Breeders Service, a leader in the field of animal genetics and a division of W. R. Grace Co., has an immediate opening for a research technologist in its cloning laboratory.  The person selected will be responsible for designing, conducting and interpreting research in the areas of in vitro fertilization, embryo culture, and transfer.  Salary: $20,000 to $36,000, depending on experience.  Interested candidates should mail a resume, along with their salary history/requirements to: Employment Coordinator American Breeders Service P.O. Box 459 DeForest, WI 53532 An Equal Employment Opportunity M/F/H/V.

RESEARCH WILDLIFE BIOLOGIST—Incumbent is assigned to the Pacific Southwest Forest Experiment Station, Arcata, California.  Research will focus on wildlife populations and habitats in mature and old-growth northern California.  Project responsibilities include: (i) continuing a radio-telemetry study designed to estimate the home range size and habitat use patterns of the Spotted Owl. A Ph.D. in some area of vertebrate ecology is required.  For application information contact: Dr. Barry R. Noon, Redwood Sciences Laboratory, 1700 Bayview Drive, Arcata, CA 95521.

Established, growing immunodiagnostic company in the Galveston Bay area invites applications from SCIENTISTS to develop RIA and ELA kits.  Candidate will have a Ph.D. in chemistry or life science.  Must have at least 3 years experience in immunoassay development. Please submit résumé to: Personnel Manager Diagnostic Systems Laboratories, Inc. P.O. Box 404 Webster, TX 77598.
**POSITIONS OPEN**

**THE UNIVERSITY OF QUEENSLAND**

Equal Opportunity in Employment is University Policy

**SENIOR LECTURER/READER IN CLINICAL BIOCHEMISTRY** (FIXED TERM)

**DEPARTMENT OF BIOCHEMISTRY**

Applications are invited from suitably qualified medical or science graduates for the position of Senior Lecturer/Reader in clinical biochemistry in the Department of Biochemistry. The successful applicant will be required to teach undergraduate and postgraduate medical and science students and to establish a program of research which is compatible with the existing research strengths of the Department.

Preference will be given to candidates with experience and expertise in a branch of molecular medicine such as genetics, immunology, neurobiology, and pharmacology.

The appointee will be located in the departmental laboratories on the Royal Brisbane Hospital site. The appointee will be eligible for appointment as Deputy Director of the joint Clinical Biochemistry Program which has recently been initiated by the University and the Royal Brisbane Hospital Foundation to promote biochemical research in the Hospital environment. The Director of the Program is Associate Professor Graham Cooksley who is also responsible for the establishment and operation of the Foundation's Clinical Research Centre. A medically qualified appointee will be eligible for an honorary appointment to the Royal Brisbane Hospital.

There will also be the opportunity for the appointee to establish links with the University's newly formed Centre for Molecular Biology and Biotechnology which is under the direction of Professor John Mattick.

The Royal Brisbane Hospital is the largest teaching hospital of The University of Queensland. It is located a few kilometers from the center of a progressive city on the most rapidly expanding region of the country. The city has a subtropical climate with facilities and environs for an excellent lifestyle.

Appointment will be for a 5-year term.


Further information may be obtained from: Professor Brian Stanley, Head, Department of Biochemistry, The University of Queensland, St. Lucia, Queensland, 4067, telephone: (07) 377 2130 or Associate Professor Graham Cooksley, Department of Biochemistry, The University of Queensland, Medical School, Herston Road, Herston, Queensland, 4006, telephone: (07) 253 5112.

**GROUP LEADER**

**Environmental Surveillance**

Los Alamos National Laboratory, an international leader in technological and scientific research and development, has a position available for a Group Leader in Environmental Surveillance.

Responsibilities include managing and leading multidisciplinary environmental surveillance group supporting Laboratory operations and other DOE facilities. Will supervise programs including environmental regulation, environmental monitoring, sampling, environmental impact analysis, meteorology and special studies. Provide technical leadership for professionals in health physics, radiation biology, hydrogeology, environmental engineering, air and water quality, meteorology, and ecology.

This position requires experience in interpreting environmental regulations, environmental data and preparing environmental assessments. A significant background in regulatory compliance aspects of environmental programs for air, water, foods and soils. Excellent management and communication skills are essential. A Master's or PhD in environmental engineering, environmental science or other broadly based discipline or equivalent experience is needed.

Superior compensation and benefits are provided. For prompt consideration, send resume to: Leona Thorpe (MS P280), Personnel Services Division, 80579-BV, Los Alamos National Laboratory, Los Alamos, NM 87545.

Affirmative Action/Equal Opportunity Employer

U.S. Citizenship Required
POSITIONS OPEN

SENIOR RESEARCH ASSOCIATE BIO-ELEC- TRIC SIGNALS: The Liberty Mutual In- surance Company has a full-time position available in the Motor Unit Laboratory of the NeuroMuscular Research Center of Boston University. Research projects in progress include the study of control properties of motor units during muscle contraction and the analysis of myoelectric signals using decomposition techniques. The successful candidate will be an expert in electrical or biomedical engineering and familiar with signal processing techniques of stochastic signals. A Master of Science or Ph.D. in an appropriate discipline is required. Experience in experimental design, statistics, and computer programming is assumed. Applicants should have experience in acquisition and analysis of bioelectric signals and kinetic measurements in humans. The senior research associate is a technical resource to the Liberty Mutual Insurance Company and its policyholders. Salary will be commensurate with experience and training. Candidates with the appropriate background would be considered for an uncompensated faculty appointment at Boston University. Send curriculum vitae to: Dr. C. J. De Luca, NeuroMuscular Research Center, Boston University, 44 Cummington Street, 5th Floor, Boston, MA 02115. An Equal Opportunity Employer.

SENIOR STAFF ENGINEER

A Colorado industrial firm is seeking a senior staff engineer whose responsibilities will include designing, developing and constructing custom-state-of-the-art vac- uum, ultrahigh vacuum, and semiconductors deposition/processing systems. The candidate must have a Ph.D. in electrical engineering or related field and a minimum of 7 years of experience in the deposition and processing of semiconductors by vacuum evaporation, rf sputtering, ion implantation, diffusion, CVD, ECR- Plasma CVD and related techniques. Furthermore, the candidate must be able to work as a consultant on cryogenic vacuum systems and helium leak detectors. Salary is $36,000 per year for 40 hours per week. Send resumes to: Colorado Department of Labor and Employment, 600 Grant Street, Suite 900, Denver, CO 80203-3528 and refer to Job Order No. CD918078.

T-CELL IMMUNOLOGIST: with an interest in cytotoxic T-cell biology and TUMOR CELL BIOLOGIST with expertise in culture of human tumors to supervise clinically-oriented research in a private foundation setting. Send resume to: William H. West, M.D., Cellular Therapy Foundation, 910 Madison Avenue, Memphis, TN 38103.


WILDLIFE ECOLOGIST. The Appalachian Envi- ronmental Laboratory (AEL) of the University of Mary- land’s Center for Environmental and Economic Sciences announces the availability of a tenure-track position as assistant professor of wildlife. Persons with research interests in wildlife population biology, conservation biology, or ecosystems ecology are urged to apply. Opportunities are available to participate in and help coordinate a developing international program in natural resources. The University of Maryland system has formal linkage agreements with the Universities of Zimbabwe and Malawi. Applicants with research interests or experi- ence in this area are urged to apply. Twelve-month salary is negotiable. Submit a letter of application, a statement of research interests, curriculum vitae, and three letters of recommendation to: J. Edward Gates, Wildlife Chair, Appalachian Environmental Labora- tory, University of Maryland, Frostburg, MD 21532, by 1 November 1988. The University ofMaryland is an Affirmative Action/Equal Opportunity Employer.

AWARDS

ANNOUNCEMENT: The Joseph P. Kennedy, Jr. Foundation will make RESEARCH AWARDS of $50,000 to $100,000 for projects on the biomedical or biobehavioral bases of mental retardation on 1 July 1989. Applications from investigators with preliminary research experience or preliminary “high-risk” proposals from established investigators are encouraged. Two-page letters of intent including objectives, methodology, summary budget, and curriculum vitae are due by the end of November 1988. Complete proposals will be solicited after preliminary review. Write to: Jess G. Thoenen, M.D., Medical Director The Joseph P. Kennedy, Jr. Foundation 1350 New York Avenue, Suite 500 Washington, DC 20005-4709

CONFERENCE

3rd INTERNATIONAL CONFERENCE ON INSECT NEUROCHEMISTRY AND NEUROPHYSIOLOGY 10 to 12 July 1989 University of Maryland, College Park Plenary sessions Contributed papers, Posters Topics will include physiology, chemistry, and molecular biology of regulatory peptides, neuro- transmitters, biogenic amines, and related ion channels, and morphology and development of the nervous system. Attendance is limited to 200 participants. For further information contact: ICNN ’89 Registration, Insect Reproduction Laboratory, USDA, Building 306, Room 323, BARC-East, Beltsville, MD 20705.

COUERSE

THE JAMES S. MCDONNELL FOUNDATION SUMMER INSTITUTE IN COGNITIVE NEURO- SCIENCE. The second annual Summer Institute will be held at Dartmouth College, 26 June–7 July 1989. The course will examine how information about the brain works on issues in cognitive science, and how approaches in cognitive science apply to neuroscience research. A distinguished faculty will lecture on current topics in visual, and memory, and demonstrations will provide practical experience with cognitive neuropsychology experiments, connectionist/computational modeling, and neuroimaging. At every stage, the relationship between cognitive issues and underlying neural circuits will be explored. The Institute directorates: Ira Black, Michael Gazagna, Steven Hillyard, Ralph Linsker, and Gordon Shepherd. Applications are invited from beginning and established researchers. The foundation will provide limited support for travel expenses and room/board. For further information and applications please write to: McDonnell Institute in Cognitive Neuroscience Michael S. Gazagna, Ph.D. HR 7916-4 Dartmouth-Hitchcock Medical Center Hanover, NH 03756

FELLOWSHIPS

FELLOWSHIPS


FELLOWSHIPS

SUGICAL ONCOLOGY FELLOWSHIP HARVARD-ASSOCIATED TEACHING HOSPITALS Two NIH-funded Surgical Oncology Research Fel- lowships are available July, 1989. Eligibility: (i) Surgical residents who have completed at least 2 years of residency training. (ii) Chief residents in surgery and recently graduated Board-eligible sur- geons wishing to pursue academic careers in surgical oncology.

Training Facilities: This fellowship is based at the New England Deaconess Hospital, The Dana-Farber Cancer Institute, and other Harvard-affiliated teaching hospitals and their research institutions. The 2-year fellowship will provide intensive research training in oncology, immunology and tumor biology. Graduate courses at Harvard Medical School will supplement the laboratory experience. Formal clinical rotations in medical and radiation oncology will provide multidis- ciplinary exposure.

Competitive salary is commensurate with level of training and experience. Applicants interested in this fellowship are invited to send their curriculum vitae to: Department of Surgery Attention: Surgical Oncology Fellowship New England Deaconess Hospital 1111 Beacon Street, 8th Floor Boston, MA 02215

FELLOWSHIPS

Postdoctoral and predoctoral fellowships available from Sigma Delta Epsilon, Graduate Women in Science, Inc. Applications from women are particularly encouraged. The fellowships are available for $1000 to $4000; deadline is 1 December 1988. Eloise Gerry Fellowships—Chemical or Biological Science Sigma Delta Epsilon Fellowships—Natural Sciences (excluding chemical and biological) For additional information: Sigma Delta Epsilon Graduate Women in Science, Inc. P.O. Box 4748 Ithaca, NY 14852

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