POSITIONS OPEN

ASSISTANT PROFESSOR, ANATOMY

The Department of Surgery, Section of Anatomy, at Yale University School of Medicine invites applications for a tenure-track position at the level of assistant professor. Research interest should be in the area of cell and molecular biology. Candidates for this position will have a faculty appointment at the assistant professor level. Applicants should have a Ph.D. degree, postdoctoral experience, and a strong showing of research promise and potential. Review of applications will begin on 1 February 1991. Department of Surgery, Yale University School of Medicine, P.O. Box 3333, New Haven, CT 06510. Applications should be sent to: Dr. David B. Stewart, Department of Surgery, Yale University School of Medicine, P.O. Box 3333, New Haven, CT 06510. Yale University is an Equal Opportunity/Affirmative Action Employer and all women and members of minority groups are encouraged to apply.

ASSISTANT PROFESSOR OF BIOLOGY. Tenure-track, Ph.D. training in cell biology/molecular biology and commitment to undergraduate teaching required. Teaching responsibilities will include introductory course and upper-division specialty course, research involving undergraduates is encouraged. The department is composed of six faculty and will occupy new facilities in 1991. Send curriculum vitae including reference list to: R. J. Peters, Department of Biology, Lycoming College, Lycoming, PA 17545 by 23 November 1990. Lycoming College encourages applications from women and minority candidates.

DEPARTMENT OF BIOLOGY ASSISTANT PROFESSOR POSITION

The Department of Biology invites applications for a full-time, tenure-track position at the assistant professor rank at the University of Wisconsin Center (UWC)-Madison. The department seeks candidates to begin fall 1991. A doctorate is required, with strengths in teaching introductory genetics, botany, and microbiology. The UW Centers, which includes 13 campuses, is one of the institutions of the Wisconsin University System. Its mission includes offering freshman/sophomore level instruction to students planning to transfer to a 4-year institution. UW faculty are expected to offer quality instruction and be professionally active in their discipline. Send curriculum vitae and three letters of recommendation to: Dr. Koby T. Crabtree, Chair, UW-Madison, 518 South 7th Street, Wauwatosa, WI 53241, by 15 November 1990. The UW Centers is an Affirmative Action/Equal Opportunity Institution.

University of Pennsylvania. The Department of Psychology invites applications to make an appointment at the ASSISTANT PROFESSOR level in the area of developmental psychology, with emphasis on social and emotional development. The successful candidate will direct an independent program of research in an area of the candidate's choice and supervise candidates working in the candidate's area of specialization. A Ph.D. is required for appointment at the assistant professor level. Send curriculum vitae, including the names and addresses of three references, and three letters of recommendation by 15 December 1990 to: Search Committee A, Department of Psychology, University of Pennsylvania, 3815 Walnut Street, Philadelphia, PA 19104-6999. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

COLBY COLLEGE

The Department of Geology at Colby College seeks to fill a tenure-track position in groundwater hydrology and environmental geology at the ASSISTANT PROFESSOR level, beginning fall 1991. Qualified candidates will be considered for appointment as Clare Booth Luce Assistant Professor of Geology. Courses to be taught will include groundwater hydrology, environmental geology, structural geology, a course in the candidate's subdiscipline, and alternating duties in the introductory physical geology course. Application form, letter of interest, a complete curriculum vitae including a statement of research interests and teaching philosophy, and three reference letters should be sent to: Dr. W. M. White, Professor and Chair, Department of Geology, Colby College, Waterville, ME 04901-4799. Colby is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.

POSITIONS OPEN

ASSISTANT PROFESSOR MOLECULAR AND CELLULAR BIOLOGY

The Department of Microbiology and the College of Medicine at the University of Illinois (Urbana-Champaign) invites applications for a tenure-track position at the level of assistant professor. Research interests should be in the area of cell and molecular biology. Candidates for this position will have a faculty appointment at the assistant professor level. Applicants should have a Ph.D. degree, postdoctoral experience, and a strong showing of research promise and potential. Review of applications will begin on 1 February 1991. Department of Microbiology, University of Illinois, Urbana-Champaign, IL 61801. Applications should be sent to: Dr. John E. Bumgarner, Department of Microbiology, University of Illinois, Urbana-Champaign, IL 61801. Applications should be sent to: Dr. John E. Bumgarner, Department of Microbiology, University of Illinois, Urbana-Champaign, IL 61801. The University of Illinois is an Equal Opportunity/Affirmative Action Employer.

MUTATION BIOLOGIST. The Department of Biology, New Mexico State University (NMSU), invites applications for a tenure-track position as ASSISTANT PROFESSOR. Applicants should have a Ph.D. and postdoctoral experience. We prefer research interests in prokaryotic systems or applied/environmental/bioremediation microbiology. The department offers the B.S. in microbiology or biology as well as the M.S. and Ph.D. Faculty participate in a molecular biology graduate program. Review will begin on 1 December 1990 and will continue until the position is filled. Send curriculum vitae, summary of research goals, statement of teaching philosophy and experience, three letters of reference, and telephone numbers of three to five references to: J. L. Bortsch, Chairman, Microbiology Search Committee, Department of Biology, NMSU, Las Cruces, NM 88003. Telephone: 505-646-3726. NMSU is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

NEUROSCIENCE UNIVERSITY OF COLORADO SCHOOL OF MEDICINE

The Neuroscience Center invites applications for two tenure-track faculty positions at the ASSISTANT PROFESSOR level, effective in late 1991. Newly constructed research space and start-up funds are available. We especially invite applications from developmental neurobiologists and developmental neurobiologists; however, outstanding candidates in any area of neuroscience will be considered. The Neuroscience Center is a strong research facility with interests in cellular, molecular and developmental neurobiology, sensory systems, neuroreceptor pharmacology and neural transmission. Other areas for which the Neuroscience Center is currently interested include models of genetic diseases, molecular biology and immunology enhance the research environment. Successful candidates will be expected to conduct independent research and to participate in graduate teaching. Applicants should send their curriculum vitae, a brief description of their research interests, and three letters of reference to: Dr. Nicholas W. Seeds, Director of the Neuroscience Center B-121, University of Colorado Medical School, Denver, CO 80262.

This material is based upon work supported by the National Science Foundation, the U.S. Public Health Service, and the Division of Health Sciences Research of the National Institutes of Health. The views expressed in this material are those of the author and do not necessarily represent the views of the National Science Foundation, the U.S. Public Health Service, or the National Institutes of Health.
POSITIONS OPEN

ASSISTANT PROFESSOR
BIOLOGY DEPARTMENT
WILLIAMS COLLEGE

Anticipated tenure-track position beginning July 1991. Ph.D. preferred; will consider candidates with M.D. and research. Ability to teach a range of courses including general biology desirable. Normally faculty members teach one course and conduct research each semester. A research program in modern organismal or regulatory physiology which can attract extramural funding and involve graduate students is expected. Additional interests might include, but are not limited to, physiological ecology or evolutionary biology involving invertebrates or lower vertebrates. Applicants will be expected to some postdoctoral experience desirable. Please send curriculum vitae, statement of teaching and research interests, and three letters of reference by 9 November 1990 to: Dr. Edward M. Bass, Department of Biology, Williams College, Williamstown, MA 01267.

An Equal Opportunity/Affirmative Action Employer. Williams College especially welcomes applications from women and minority candidates.

UNIVERSITY OF WISCONSIN—MADISON

The Department of Psychology anticipates making an appointment at the ASSISTANT PROFESSOR level in the area of COGNITIVE NEUROSCIENCE beginning August 1991. Candidates who are working in any area of this field will be considered, including neuropsychiological studies of behavior, psychophysical investigations of cognitive function, and developmental and computational models of the normal and abnormal nervous system. Scientists whose research includes more than one of these areas will be favored. Curriculum vitae plus three letters of evaluation and selected reprints should be sent to: Committee on Neuroscience Search Committee, Department of Psychology, University of Wisconsin—Madison, 1202 West Johnson Street, Madison, WI 53706. The University of Wiensi- mSinod is an Equal Opportunity/Affirmative Action Em- ployer and especially encourages women and minorities to apply. To ensure consideration, applications should be received by 1 January 1991.

BARNARD COLLEGE
ASSISTANT PROFESSOR, MICROBIOLOGY

The Department of Biological Sciences at Barnard College seeks an assistant professor for September 1991 to participate in undergraduate teaching and maintain an active research program in an undergraduate college that is affiliated with a large research institution, Columbia University. Possible specialties may include physiology, ecology, or evolution of any group of prokaryotes or applied environmental focus desirable. Candidates should be broadly trained and able to teach undergraduate lecture and laboratory courses in microbiology and courses in an area of specialty. Ph.D. required; postdoctoral research and prior teaching experience desirable. Submit curriculum vitae, list of publications, brief statements of research and teaching interests, up to three representative publications, and three letters of recommendation to: Lorrie Johnson, Department of Biological Sciences, Barnard College, 3009 Broadway, New York, NY 10027 by 15 December 1990. Women and members of minority groups are encouraged to apply.

FISHERIES BIOLOGIST

The Fisheries Department at Southwest Missouri State University invites applications for a tenure- track position as Assistant Professor in fisheries at the Assistant Professor level beginning August 1991. Applicants must possess a Ph.D. with a major in aquatic biology or closely related discipline. Teaching responsibilities will include an undergraduate fisheries management course and various other required courses as needed. Applicants must possess a Ph.D. and demonstrate evidence of active research in any area of fisheries management. The successful candidate will be expected to seek extramural funding related to fisheries research and develop a research program. Applicants should send curriculum vitae, transcripts, and the names and addresses of three references by December 1, 1991 to: Department Chairperson, Southwest Missouri State University, 901 South National, Springfield, MO 65804.

As an Affirmative Action/Equal Opportunity Employer, SMS invites applications from minorities and women.

POSITIONS OPEN

ASSISTANT PROFESSOR
BIOLOGY DEPARTMENT
WILLIAMS COLLEGE

Anticipated tenure-track position beginning July 1991 for a position with select teaching and research abilities. Ability to teach a range of courses including general biology desirable. Normally faculty members teach one course and conduct research each semester. A research program in modern organismal or regulatory physiology which can attract extramural funding and involve graduate students is expected. Additional interests might include, but are not limited to, physiological ecology or evolutionary biology involving invertebrates or lower vertebrates. Applicants will be expected to some postdoctoral experience desirable. Please send curriculum vitae, statement of teaching and research interests, and three letters of reference by 9 November 1990 to: Dr. Edward M. Bass, Department of Biology, Williams College, Williamstown, MA 01267.

An Equal Opportunity/Affirmative Action Employer. Williams College especially welcomes applications from women and minority candidates.

UNIVERSITY OF WISCONSIN—MADISON

The Department of Psychology anticipates making an appointment at the ASSISTANT PROFESSOR level in the area of COGNITIVE NEUROSCIENCE beginning August 1991. Candidates who are working in any area of this field will be considered, including neuropsychiological studies of behavior, psychophysical investigations of cognitive function, and developmental and computational models of the normal and abnormal nervous system. Scientists whose research includes more than one of these areas will be favored. Curriculum vitae plus three letters of evaluation and selected reprints should be sent to: Committee on Neuroscience Search Committee, Department of Psychology, University of Wisconsin—Madison, 1202 West Johnson Street, Madison, WI 53706. The University of Wisconsin—Madison is an Equal Opportunity/Affirmative Action Employer and especially encourages women and minorities to apply. To ensure consideration, applications should be received by 1 January 1991.

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ASSISTANT PROFESSOR, MICROBIOLOGY

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POSITIONS OPEN

ASSISTANT PROFESSOR
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Anticipated tenure-track position beginning July 1991 for a position with select teaching and research abilities. Ability to teach a range of courses including general biology desirable. Normally faculty members teach one course and conduct research each semester. A research program in modern organismal or regulatory physiology which can attract extramural funding and involve graduate students is expected. Additional interests might include, but are not limited to, physiological ecology or evolutionary biology involving invertebrates or lower vertebrates. Applicants will be expected to some postdoctoral experience desirable. Please send curriculum vitae, statement of teaching and research interests, and three letters of reference by 9 November 1990 to: Dr. Edward M. Bass, Department of Biology, Williams College, Williamstown, MA 01267.

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UNIVERSITY OF WISCONSIN—MADISON

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**POSITIONS OPEN**

**ASSISTANT PROFESSORS**

**NEUROSCIENCES**

**CASE WESTERN RESERVE UNIVERSITY**

The Department of Neurosciences at Case Western Reserve University, Cleveland, OH 44106, invites applications for a number of tenure-track openings for assistant professors. Candidates should have at least 2 years of postdoctoral research experience in a relevant field and possess their own independent research program. Teaching duties primarily involve lecturing on the neurosciences to graduate and medical students. The position requires the development of a new course or a new graduate seminar in a relevant field at the undergraduate level. Applicants should send a single letter of application, a current curriculum vitae, a list of research interests, and three letters of recommendation to: Dr. Richard Zigmond, Chair, Search Committee, Department of Neurosciences, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106. The University is an Equal Opportunity/Affirmative Action Employer.

**INSECT MOLECULAR BIOLOGIST.** A target closing date is extended for a tenure-track position at the Department of Entomology, Michigan State University (MSU), previously advertised as molecular insect pathologist. This ASSISTANT PROFESSOR position is available to individuals with research responsibilities that will entail the establishment of a vigorous program with potentials of developing novel methods in pest or vector management. Research program can be in areas such as: molecular virology, molecular applications of insect-host or vector-pathogen interaction, molecular genetics of insecticide resistance, or bioinformatics. Teaching responsibilities include participation in an upper division course in molecular entomology and developing a graduate course in the area of expertise. Qualifications: a Ph.D. in entomology, molecular biology, molecular virology, nematology, biochemistry, or related discipline with background in molecular biology. Postdoctoral or similar experience is desirable. Applicants should forward: (i) letter describing qualifications and career goals, (ii) curriculum vitae, (iii) list of publications (including reprints), and (iv) names, addresses, and telephone numbers of three to five references. Send applications to: Dr. A. S. Rakhil, Search Committee Chairperson, Department of Entomology, Michigan State University, East Lansing, MI 48824–1118. Telephone: 517-355-7144. FAX: 517-353-5598. Target closing date is 15 January 1991. MSU is an Affirmative Action/Equal Opportunity Employer. Position #NS1047.

**BIOLIST.** The Biology Department of William Jewell College invites applications for a tenure-track ASSISTANT PROFFESSOR beginning fall 1991. The applicant should have a Ph.D. in botany and a broad background in biology. A strong commitment to teaching and directing undergraduate research is required. Women and minorities are strongly encouraged to apply. Address letter of application by 30 November 1990 to: Dr. Judith Dix, Chairperson, Department of Biology, William Jewell College, Liberty, MO 64068–1896. Telephone: 816-781–7700, ext. 5661. Affirmative Action/Equal Opportunity Employer.

Florida International University (FIU), the State University of Florida at Miami. Tenure-track position effective August 1991 at ASSISTANT OR ASSOCIATE PROFESSOR level with research focus in environmental chemistry. Position is a joint, 12-month appointment between the Department of Chemistry and the Department of Environmental Research Centers required; postdoctoral experience desirable. Active research program expected. Teaching responsibilities at both graduate and undergraduate levels, including management of an area of expertise. Closing date: 6 December 1990. Send curriculum vitae, transcripts, research plans, and three letters of reference to: L. Kelley, Department of Chemistry, Florida International University, Miami, FL 33199. FIU is rapidly growing with over 20,000 students. A new chemistry/physics building will open in late 1990. FIU is an Affirmative Action/Equal Opportunity Employer.

**BONUS CIRCULATION FOR YOUR CLASSIFIED AD**

Our issue of 16 November 1990 will be distributed to the audience of the meeting of the American Society for Cell Biology (ASCB) in San Diego, California, 9 to 13 December 1990. Deadline for inclusion of classified ads is 1 November 1990.

**SCIENCE Classified Advertising**

Telephone: 202-326-6655
FAX: 202-682-0816

**POSITIONS OPEN**

**MICROBIOLOGIST.** Applications are invited for a tenure-track ASSISTANT PROFESSOR in microbiology. Position beginning as early as January 1991. A Ph.D. is preferred. Research experience and training in molecular biology are preferred. The successful candidate is expected to develop an independent research program in molecular biology, and to participate in and assist in the graduate and undergraduate teaching programs. Applications and three letters of recommendation should be submitted by 20 November 1990 to: Dr. Tony D. Stempel, Chair, Biology Department, University of Nevada, Reno, NV 89557. The University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

**NATURAL RESOURCES**

**BALL STATE UNIVERSITY**

**MUNCIE, INDIANA**

**ENVIRONMENTAL SCIENTIST** with an international focus is invited to join a nine-member department dedicated to maintaining environmental quality. The position requires the development of a natural resources international studies program which includes research, public service activities, and recruitment of foreign undergraduate and graduate students. The individual selected will have an opportunity to refine and teach an existing upper division course in environmental resource management and to teach upper division and graduate courses in his/her specialty. This ASSISTANT PROFESSOR position requires having earned a doctorate in natural resources or a related field, at least 5 years of teaching and/or administrative experience at the college or university level, professional experience work program related to the above, and a record of research, and a publication record. Submit letter of application, transcripts, and three letters of reference to: Dr. Thomas Lowe, Department of Natural Resources, Ball State University, Muncie, IN 47306. Review of applications will begin 30 January 1991 and continue until the position is filled.

Ball State University practice Equal Opportunity in Education and Employment.

**PHYSICIAN SCIENTIST**

To study rheumatic manifestations of HIV infection. Must be Board-certified in internal medicine and Board-eligible in rheumatology, and have established clinical experience with HIV-associated rheumatic diseases, reflected by first-authored publications. Proficiency in molecular immunogenetics of the HLA system required, including proven familiarity with techniques of DNA preparation, PCR, and DNA sequencing. Should have demonstrated interest in rheumatic disease research, and experience developing extramural funding. Although interest in arthritis-related areas of interest are desirable. Applicants should send letter of interest and three references to: E. H. Bryant, Department of Biology, University of Houston, Houston, TX 77204–5513. Review of applications is expected to be completed by 30 December 1990. The University of Houston is an Affirmative Action/Equal Opportunity Employer.

**ECOLOGIST**

**DUKE UNIVERSITY**

Applications are invited for a FACULTY POSITION in ecology in the Department of Biology at Duke University. The new appointment will begin in the fall of 1991. Screening of applicants will begin 1 November 1990. Applicants with high promise in research and teaching programs for the next several years in ecology, but who are particularly interested in candidates who take an experimental approach to community, population, or evolutionary problems in field situations. We expect to fill the vacancy with a tenure-track associate professor, but exceptional candidates at the tenure associate professor level will also be considered. In addition to a rigorous research program, candidates are expected to develop undergraduate and graduate courses in the candidate's area of specialization. Interested applicants should send curriculum vitae, including names of three references, a research statement, and teaching goals, one research paper or manuscript, and the names, addresses, telephone, and FAX numbers of three other referees. Applications should be sent to: D. A. Livingstone, Department of Zoology, Duke University, Durham, NC 27706. Duke University is an Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are strongly encouraged to apply.
Neurosciences at PARKE-DAVIS
PARKE-DAVIS Neuroscience research ranges from molecular to behavioral pharmacology. Expansion has resulted in the following new positions:

**Receptor Biologist**
This individual will use binding techniques to assess functional aspects of CNS receptors and to investigate and characterize new receptors. Expertise with catecholamine, neuropeptide, cholinergic or excitatory amino acid receptors would be advantageous. An ability to apply molecular biology to the expression and characterization of receptors is desired.

**Protein Biochemist**
This scientist should have experience in protein purification, processing or expression, and an interest in neuroscience. Research experience with neurotransmitter receptor proteins, signal transduction processes, abnormal protein processing or calcium activated proteases would be advantageous.

**Molecular Neurobiologist**
The successful candidate will conduct basic neurobiological research employing molecular biology techniques. Research experience with cloned and expressed proteins that are of neurobiological interest is desired. Publications in the area of neuronal ion channels, growth factors, neurotransmitter receptors or neuropeptides would be advantageous.

**Qualifications**
Requirements for these positions include a Ph.D. or M.D. and evidence of productive postdoctoral work. Strong oral and written communication skills are essential. Senior research scientists with a published record of accomplishments are encouraged to apply.

Successful candidates should be able to establish and direct a laboratory and develop a strong independent research program. Collaboration with other neuroscientists as well as those in molecular genetics, biochemistry, signal transduction and medicinal chemistry groups are expected. Publications and presentations of findings at national and international meetings are encouraged and supported.

To learn more about your possible future on the frontier of Neuroscience research, send your resume or CV, with references to: Mr. Bill Burmeister, PARKE-DAVIS, 2800 Plymouth Road, Ann Arbor, MI 48105.

PARKE-DAVIS neuroscientists will interview candidates at the annual Meeting of the Society for Neuroscience in St. Louis. “Smoke-Free Work Environment”

**Equal Opportunity in Action**

PARKE-DAVIS
Pharmaceutical Research Division Warner-Lambert Company

We’re Putting More Than Thought Into Neuroscience

Neuroscience is the most rapidly advancing area of medical research today, and PARKE-DAVIS is committed to being a leader in CNS drug development. That’s why Neurosciences is a major part of our $300 million yearly research budget. New Neuroscience labs are planned for our Ann Arbor research center, adjacent to the University of Michigan’s north campus.

PARKE-DAVIS is making a commitment to basic science-driven research. It is reflected by the high-quality of researchers being attracted to PARKE-DAVIS today. PARKE-DAVIS research groups are making use of the latest scientific developments in their search for drugs to treat neurologic and psychiatric diseases.

We are seeking outstanding scientists to establish independent research programs and join existing groups to discover new mechanistic approaches to the drugs of tomorrow.
POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR OF BIOCHEMISTRY. The Department of Biochemistry seeks to fill one or two tenure-track positions starting fall 1991. A Ph.D. is required and postdoctoral experience is desirable. We are particularly interested in candidates contributing to achieving excellence in teaching and who have an established research record and the potential to maintain an extramurally funded research program that includes supervision of graduate students and participation in the training of a faculty of 40 with active groups in ecology, botany, conservation, marine biology, microbiology, molecular biology, toxicology, and virology.

- AVIAN BIOLOGY. We seek an avian biologist whose primary responsibilities will be to (i) participate in graduate program in conservation biology; (ii) offer upper division and graduate courses in avian biology; (iii) participate in lower division courses on a rotational basis; and (iv) establish a research program in avian virology.

Send curriculum vitae, statement of teaching and research interests, and all three letters of reference by 10 December 1990 to:
Dr. John Hafernik, Chair, Hiring Committee
Department of Biology
San Francisco State University
San Francisco, CA 94132

Women and minority candidates are especially urged to apply. SFSU is an Equal Opportunity/Affirmative Action Employer.

ENDOWED CHAIR IN PLANT MOLECULAR BIOLOGY

Iowa State University (ISU) invites applications for the chair in the molecular biology area of an endowed position by Pioneer Hi-Bred International. We seek a research scientist with an established basic research program in molecular biology, genetics, and/or biochemistry, to pursue research in the plant sciences program. The holder of the endowed chair will be expected to provide leadership in the research in the plant sciences program, especially in maize.

Opportunities exist for interactions with an ISU plant science research group, including geneticists, biochemists, plant cell biologists, and molecular biologists. The individual will have an important role in the new faculty in plant molecular biology and genetics. The recipient of the chair will have access to a broad range of superior quality germ plasm and genetic stocks for research in maize and other plants.

Applications will be accepted from those having: D. J. Graves, Chair of the Search Committee, Department of Zoology and Genetics, Iowa State University, Ames, IA 50011. and should include curriculum vitae, a description of current research, plans for future research activities, and three letters of reference. Application deadline is 15 January 1991 or until a suitable candidate is found.

Assist. Professor of Anesthesiology, Department of Anesthesiology, University of South Florida (USF), 12901 Bruce B. Downs Boulevard, Tampa, FL 33612. USF is an Equal Opportunity/Affirmative Action Employer.
ASSISTANT PROFESSOR
MOLECULAR NEUROBIOLOGY
THE SALK INSTITUTE

The Salk Institute for Biological Studies invites applications for a faculty appointment in the Neurosciences. We seek candidates with research interests in the application of molecular genetics to the study of the nervous system. Current areas of research include ion channel biophysics (Chuck Stevens), neurotransmitter receptors (Steve Heinemann), vertebrate neural development (Dennis O'Leary), Drosophila neural development (John Thomas), neural induction (Chris Kintner), myelination (Greg Lemke), and visual system physiology (Charles Gray).

Interested individuals should submit a curriculum vitae, a brief statement of present and future research interests, and the names of three references to:

Molecular Neuroscience Search Committee
The Salk Institute
P.O. Box 85800
San Diego, CA 92186-5800

Equal Opportunity Employer M/F/H/V.

PROFESSOR AND CHAIR
DEPARTMENT OF BIOCHEMISTRY
UNIVERSITY OF KENTUCKY
COLLEGE OF MEDICINE
(SEARCH REOPENED)

Nominations and applications are invited for the position of Professor and Chair of the Department of Biochemistry at the University of Kentucky, College of Medicine. The Department currently includes 19 full-time faculty with teaching responsibilities for the M.D. degree program of the Medical School and the Ph.D. degree program in Biochemistry offered through the Graduate School. This is an exceptional opportunity to assume the leadership of a department which is well funded and equipped and has a vigorous graduate program but still provides opportunities for new development owing to current and future vacancies, a new research building, has a strong commitment to research in cancer and aging. We are seeking candidates with an M.D. or Ph.D. degree (or equivalent degree), an outstanding record of achievement in the fields of biochemistry and/or molecular biology, experience in or potential for academic administration and an ability to provide strong leadership. Candidates should submit a curriculum vitae and the names of references to:

Alan M. Kaplan, Ph.D., Chair
Biochemistry Chairman Search Committee
Department of Microbiology and Immunology
University of Kentucky, College of Medicine,
Room MS 411
Lexington, Kentucky 40536-0084

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

THE MEDICAL COLLEGE OF PENNSYLVANIA
CHAIR
DEPARTMENT OF ANATOMY AND NEUROBIOLOGY

The Medical College of Pennsylvania invites applications and nominations for the position of Chair, Department of Anatomy and Neurobiology. The Department currently has a ten full-time faculty members with a strong emphasis on Neuroscience research ranging from molecular to behavioral studies. The faculty is well funded and, in addition, has a NIH funded Program Project Grant on mechanisms of recovery from spinal cord injury and a funded postdoctoral program. The number of individuals, including staff, pre and postdoctoral students and faculty, totals sixty-three.

We seek a distinguished scientist and educator in cell, developmental, molecular, or neurobiology or genetics with proven ability in Administration who can lead and expand the department. The Medical College of Pennsylvania is undergoing an expansion phase of its physical facilities that will allow the potential for the addition of faculty and space to the department.

A letter of interest or nomination, curriculum vitae and the names of at least three references should be sent by October 31, 1990 to George L. Popky, M.D., Chair, Anatomy and Neurobiology Search Committee, Professor and Chairman, Department of Radiologic Sciences, The Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, Pennsylvania 19129. Equal opportunity/affirmative action employer.

The University of Sydney
AUSTRALIA

CHAIR OF BIOLOGY
Reference No. 38/01

Applications and expressions of interest are invited for appointment to a Chair of Biology in the area of animal biology, in the School of Biological Sciences, which will become vacant on the retirement of Professor D.T. Anderson FRS in December 1991. There are three other Chairs in the School, with current responsibilities in vertebrate biology, plant and cell biology and genetics and molecular biology. The School has responsibilities for teaching in all areas of biology including physiology and ecology of animals, fungi and plants, marine biology, developmental biology, genetics and molecular biology. The Chair may be held in any area of animal biology, but preference may be given to applicants with an interest in teaching and research involving invertebrates.

Further general information is also available from the Association of Commonwealth Universities, 36 Gordon Square, London, WC1H 0PF.

The University reserves the right to appoint by invitation and not to proceed with any appointment for financial or other reasons.

Salary: $A67,812 per annum.

Applications (in triplicate for Chairs) quoting reference no., and including curriculum vitae, list of publications and the names, addresses and fax nos. of three referees, to the Registrar, Staff Office, University of Sydney, NSW, Australia 2006, from whom general information is available by 20 December, 1990.

Equal employment opportunity and no smoking in the workplace are University policy.
DIRECTOR, PROCESS DEVELOPMENT. Responsible for management of proprietary tungsten silicide, blanket tungsten, and selective tungsten thin-film development. Leads management of proprietary film development program to develop a single-water selective tungsten reactor and process and supervise operations of research and development engineers and technicians involved in the program. Requires Ph.D. or equivalent in physics or chemistry and 3 years of experience in research and development of single-water, integrated circuit processing. Also requires experience with cold wall chemical vapor deposition (CVD) reactors, plasma-enhanced reactions, CVD of conducting and semi-insulating oxides, and metalization system for integrated circuits, and interfacial behavior, specifically with selective types of depotions. Salary: $85,000. Start-up and interview site: Mountain View, California. Send this ad with résumé to: Job #FC18817, Box 9560, Sacramento, CA 95823-0560 not later than 3 November 1990.

Applications and invitations are invited for the full-time position of HEAD, DEPARTMENT OF PERIODONTICS, The University of Illinois at Chicago, College of Dentistry. The position is available 1 January 1991. The department is involved in predoctoral and postgraduate teaching and research. Qualifications include a D.D.S./D.M.D. or equivalent degree, a specialty certificate in periodontics and eligibility for Board certification. Extensive research capability and leadership qualities are essential. Salary and academic rank are commensurate with experience and qualifications. See listing under Non-wertn in this issue of the journal. Application deadline is 15 December 1990. The University of Illinois is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. Send curriculum vitae and names of three references to: Dr. Ingrid C. Frenwals, Chair, Periodontics Search Committee, The University of Illinois at Chicago, College of Dentistry (MC 8550), P.O. Box 6998, Chicago, IL 60680.

BIOCHEMIST/MOLECULAR BIOLOGIST Beckman Instruments has a position available for a PRINCIPAL APPLICATIONS BIOLOGIST to participate in the definition and development of analytical instruments and applications. The position requires a Ph.D. with at least 3 years of postdoctoral training in molecular biology. Must have research experience using electrophoresis and/or isotopic and nonisotopic detection systems. Please send your résumé, including salary history, in confidence to: R. S. Metcalf, M.S. D-27-A, Beckman Instruments, Inc., 2500 Harbor Boulevard, Fullerton, CA 92532. Principals only, please. An Affirmative Action Employer.

ANALYST BECKMAN PRECOLLEGE SCIENCE EDUCATION PROGRAM MANAGER Associated Western Universities, a consortium of 41 universities, is seeking a manager to coordinate its Department of Energy (DOE)-sponsored precollege science education programs including fellowship awards for faculty programs at 14 DOE laboratories. Qualifications: excellent communication, interpersonal, and organizational skills; B.S. with strong background in science engineering (advanced degree preferred); experience in sponsored program administration a plus. Position available immediately; salary $40,000. Send application and names of three references to: Associated Western Universities, Inc., 4190 South Highland Drive, Suite 211, Salt Lake City, UT 84124.

FACULTY POSITION. The Department of Biology at the University of North Carolina at Charlotte (UNCC) invites applications for a tenure or tenure-track position in molecular genetics. This position is at the ASSISTANT PROFESSOR level and will begin in the fall semester, 1991. Applicants must have a strong background in molecular genetics and experience preferred. The successful candidate will be expected to participate in teaching undergraduate and graduate courses and in a strong research program which will attract external funding. Send letter, curriculum vitae, transcripts, evidence of teaching effectiveness, a summary of current and future research plans, and names and addresses of three references by 1 December 1990 to: Chair of the Molecular Genetics Search Committee, Department of Biology, UNCC, Charlotte, NC 28223. UNCC is an Equal Opportunity/Affirmative Action Employer.
POSITIONS OPEN

TENURE-TRACK FACULTY POSITION

PLANT SCIENTIST

Tenure-track position in plant sciences for ASSISTANT/ASSOCIATE PROFESSOR beginning fall 1991, pending final approval. Applicants should have a broad background in the plant sciences, postdoctoral training, a commitment to undergraduate and graduate teaching, and will be expected to develop a strong research program supported by extramural funding, including graduate training.

The University of North Texas (UNT) is an emerging national research institution in the rapidly expanding Dallas-Fort Worth metropolitan area with over 700 regular faculty and over 27,000 students (one-fourth graduate students). Candidates should send detailed résumé, reprints, and a statement of research objectives and aspirations, along with the names, addresses, and telephone numbers of five references to: Chairman, Botany Search Committee, Department of Biological Sciences, University of North Texas, P.O. Box 5218, Denton, TX 76203. Applications will be received until 15 February 1991.

UNT is an Affirmative Action/Equal Opportunity Employer.

OPENINGS FOR SCIENTISTS

The Weizmann Institute of Science is now offering a limited number of temporary appointments to the position of scientist. Candidates must have completed 2 years of postdoctoral work. Appointments will be made in all the areas of scientific research at the institute:

- Life sciences
- Chemistry
- Physics
- Mathematics
- Science teaching

Appointments are for a period of 1 year. However, they may be extended for a period not to exceed 5 years from receipt of Ph.D. degree (or equivalent). Successful appointees will be eligible to apply for promotion to the position of senior scientist.

Financial remuneration for a scientist is at the level of lecturer and includes all of the associated benefits. In addition, a relocation stipend is provided. Application forms and additional information may be obtained from:

The Feiberg Graduate School
The Weizmann Institute of Science
Rehovot 76100, Israel

Applications are reviewed twice each year: 1 January and 15 May.

FACULTY POSITIONS

The Department of Biological Sciences at Clemson University is expanding and invites applications for three tenure-track positions:

- ELECTRON MICROSCOPIST (ASSOCIATE OR FULL PROFESSOR). To direct an interdisciplinary facility presently equipped with scanning and transmission scopes. The successful candidate will be expected to maintain a state-of-the-art facility used for biological and materials research and carry on an active research program in the area of cell structure.

- EUKARYOTIC CELLULAR PHYSIOLOGIST (ASSISTANT PROFESSOR). Addressing problems in the relationship of structure with function and able to integrate molecular and cellular approaches. Postdoctoral experience is preferred.

- BEHAVIORAL ECOLOGIST (ASSISTANT PROFESSOR). Addressing either proximate or ultimate mechanisms of behavior.

Candidates for all three positions are expected to develop and maintain a strong, independent, extramurally funded research program; direct graduate students; and teach at the graduate and undergraduate levels on their field of expertise. Substantial space and start-up funds are available.

Applicants should send curriculum vitae, representative publications, a statement of research interest, and the names and telephone numbers of three references to: Angela L. Crawford, Search Committee Coordinator, Department of Biological Sciences, Clemson University, Clemson, SC 29634. All materials should be received by 1 December 1990 in order to assure consideration.

Clemson University, the land-grant institution of South Carolina, is an Affirmative Action/Equal Opportunity Employer.

19 OCTOBER 1990

Director of Medical Virology

Applications are invited from qualified Pathologists whose degrees are recognized in Australia and who are experienced consultant virologists, for the position of Director of the major viral diagnostic and public health laboratory in the State of Victoria. Fairfield Hospital is located on a spacious campus 6 km from the city centre and is surrounded by a National Park. The Hospital has more than 100 inpatients and a large Day Care Unit and Outpatients' Clinic.

The virus laboratory has a staff of 45 and is housed in a modern, well equipped building. It receives 20,000 samples for virus isolation and 90,000 for serodiagnosis annually. The Department has national and international responsibilities and houses several reference centres, including the WHO Collaborating Centres for Virus Reference and Research, Biosafety, and HIV related retroviruses. The Department is also designed for viral diagnostic tests in the National High Security Quarantine Unit on campus.

The activities of the virus laboratory are closely associated with those of the Macfarlane Burnet Centre for Medical Research, which has a staff of 42 and currently shares the same premises. Planning for a new building to provide separate accommodation for research staff is under way.

The successful candidate will be responsible for provision of a modern and efficient diagnostic service, teaching medical students and training of graduate staff, consultation with clinicians and pathologists, and representing the laboratory at meetings within and outside the Hospital. Experience with computers would be an advantage. Opportunities for diagnostic epidemiological and applied research exist and are encouraged.

Appointments to the medical faculties of both the University of Melbourne and Monash University will be considered at a level to be determined by the background qualifications and experience of the successful applicant.

Salary in accordance with the Senior Medical Officers' Award, e.g. Specialist Class 4, $A85.597 p.a. Subsidised superannuation is available.

For further details please contact the Director of Medical Services, Dr A. Kucera, on (61-3) 488 2028. Fax (61-3) 391 8118. Applications, including names of 3 referees, to the Executive Director by 30 November 1990.

Fairfield Hospital

Yarra Bend Road, Fairfield, Victoria, 3078, Australia

Make A Discovery

In Vitro Fertilization

Discover Chicago's Grant Hospital, located in Lincoln Park. Currently, we seek an experienced medical professional to head our newly-established IVF laboratory.

Respondents should possess a relevant Ph.D. and significant experience with cell/tissue culture techniques and comprehensive knowledge of gamete and embryo biology.

A highly competitive salary, generous benefits, research funds, support staff and academic appointment opportunities are all available.

Grant Hospital is a 502-bed state-of-the-art facility affiliated with Rush-Presbyterian-St. Luke's Medical Center. Lake Michigan, Lincoln Park Zoo, the Loop and excellent housing are all just minutes away, many are within walking distance.

For immediate and confidential consideration, please forward your C.V. to: W. Paul Domowski, M.D., Ph.D., Director, Chicago IVF and Fertility Institute, Grant Hospital, 550 W. Webster Avenue, Chicago, IL 60614. Equal Opportunity Employer M/F.

Grant Hospital of Chicago

More Things to More People
EMBL

The European Molecular Biology Laboratory, an international research organization situated in Heidelberg, West Germany, has a vacant post in its Outstation in Grenoble for a

SYNCHROTRON PROTEIN CRYSTALLOGRAPHER

The Grenoble Outstation of EMBL seeks an experienced protein crystallographer, with an interest in instrumentation, to establish a group orientated towards exploiting the intense synchrotron beams which will become available at the European Synchrotron Radiation Facility (ESRF) currently being built adjacent to the Outstation. It is hoped that EMBL will be directly involved in the construction and operation of at least two of the ESRF beamlines to be used for protein crystallography and the scientist appointed will play a major role in developing the collaboration between the EMBL and the ESRF. The scientist would be based in Grenoble but in the early stages would gain experience at the EMBL Outstation in Hamburg where new synchrotron beamlines are being built for biological research. He would also be responsible for the appointment of other group members (e.g. research assistant or engineer).

The Grenoble Outstation of EMBL is currently a biological support laboratory for the high-flux neutron source, the Institut Laue-Langevin, and is planned to play the same role for the ESRF. It also has an active in-house research programme in structural biology and has good facilities for molecular biology, electron microscopy, computing and protein crystallography (e.g. image-plate detection system). The successful scientist would be encouraged to complement this research programme.

An initial contract of 3-5 years will be offered with an attractive tax-free salary at a level consistent with qualifications.

Please write to the Personnel Section in Heidelberg for an application form, enclosing CV and quoting reference no. 90/38.

Closing date for applications: 15.12.90

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STAFF SCIENTISTS - NEUROPHARMACOLOGY/ NEUROBIOLOGY

REGENERON PHARMACEUTICALS, a company dedicated to developing therapeutically active agents for degenerative and traumatic neurological disorders, is seeking to apply recent advances in the understanding of neuronal growth and regeneration.

REGENERON offers an exciting, collegial environment in which state-of-the-art molecular skills are brought to bear on outstanding problems in neurobiology and medicine. Key projects focus on the discovery, purification and molecular cloning of novel neurotrophic growth factors, and on the assessment of their biological roles as well as therapeutic potentials using innovative cell culture methods and animal models.

Positions in Pharmacology require a Ph.D. in Pharmacology or related discipline and a minimum of four years' post-doctoral experience in the absorption, distribution and metabolism of drugs (preferably peptides and proteins). Previous experience in pharmacokinetic modeling, knowledge of protein and peptide separation techniques, and delivery of drugs to the CNS are essential. Previous industrial experience is highly desirable.

Positions presently available in Neurobiology require a working knowledge of animal models of neurodegenerative disease and trauma. Parkinson's Diseases, Spinal Cord and PNS Trauma and Sensory and Motor Neuropathies are areas of particular interest. An M.D. or Ph.D. degree and a minimum of 3 yrs. postdoctoral experience is required.

REGENERON's modern facility is located on a 275-acre wooded campus in Westchester County, 20 miles north of Manhattan, near major universities and medical centers. We offer excellent compensation packages, including generous stock options. Suburban Westchester features attractive and affordable housing, outstanding public schools and recreational facilities along with ready access to the culture and business centers of New York City.

Please forward your resume, in confidence to: Ms. Carol Deaken,
REGENERON PHARMACEUTICALS, INC.
777 Old Saw Mill River Road
Tarrytown, NY 10591-6706
Equal opportunity employer.

REGENERON
Pharmaceuticals, Inc.
TENURE-TRACK ASSISTANT PROFESSORSHIPS
DEPARTMENT OF BIOLOGY
TUFTS UNIVERSITY

The Department of Biology at Tufts University invites applications for two new tenure track positions at the assistant professor level, to start Sept., 1991. These positions represent part of an expansion of the department made possible in part by a grant under the Howard Hughes Medical Institute Undergraduate Initiative. The Department presently has 20 full-time faculty members committed to offering a broadly-based biology curriculum. We seek candidates with training in specialties that will complement our existing research and teaching programs at the undergraduate and graduate levels. Successful applicants will be expected to pursue independent extramurally-funded research programs, and to sponsor doctoral-level graduate research. Ph.D. required; postdoctoral experience preferred. In addition to the specialized team teaching listed for each position, applicants will be expected to participate on a rotating basis in team-taught introductory and intermediate level biology courses. Applicants will be sought for the following specific positions:

BIOCHEMIST, with research interests in protein structure or function. Instructional duties will include sharing an intermediate level course in biochemistry and teaching an advanced seminar course.

IMMUNOLOGIST, with research interests in molecular or cellular immunology. Instructional duties will include participation on a regular basis in an introductory biology course for majors and teaching an advanced course in her or his specialty.

Women and minorities are encouraged to apply. Applicants should include a curriculum vitae, a concise statement of research interests and goals, and three letters of reference. Applications are due by December 31, 1990. Tufts University is an Equal Opportunity/Affirmative Action Employer.

NEW JERSEY COMMISSION ON SCIENCE AND TECHNOLOGY

CHIEF OPERATING OFFICER

Serves as Chief Operating Officer for the New Jersey Commission on Science and Technology, the New Jersey government agency for the promotion of technology based economic development activities. Reports to the 18-member bipartisan Commission through its chairperson. Experience must include and demonstrate:

- High level public policy involvement.
- Management/Administration of a Public or Private Agency, Business, Higher Education Institution/Agency or Research Groups.
- Thorough understanding of the linkages between business location decisions; academic infrastructure; research excellence; availability of trained work force; and pathways for technology and business development.
- Ability to manage a grant program ($25 million annually and capital funds approaching $100 million).
- Ability to manage a self-initiating Professional staff.

Liberal benefits package – salary commensurate with experience.

Please send resume to: Shirley A. Jackson, Ph.D., Chairperson, Search Committee, AT&T Bell Laboratories, Room 1D-337, 600 Mountain Ave., Murray Hill, NJ 07974. Filing deadline October 29, 1990. EEO/AA Employer.

Join Wyeth-Ayerst Laboratories, one of the world's largest pharmaceutical research and development groups. Now is your opportunity to become an integral member of our fast-paced, innovative team at our research facility in Princeton, N.J.

SENIOR SCIENTIST - PhD
Drug Metabolism

You will be primarily responsible for developing a drug interaction program in support of the development of new drug candidates. Your evaluation will be based on both in vitro and in vivo studies. Position requires a PhD in a related discipline with a drug metabolism background. Must have up to 3 years experience conducting in-vitro assays, drug interaction studies and analysis of Phase I and II drug metabolizing enzyme systems.

Wyeth-Ayerst offers an excellent compensation and benefits package. Please forward your resume with salary requirements to: WYETH-AYERST RESEARCH, Personnel Manager, CN 8000, Princeton, NJ 08543-8000. An Equal Opportunity Employer, M/F/H/V.

Excelling in the '90s

PRINCIPAL SCIENTIST
Group Leader

Johnson & Johnson Consumer Products, Inc., (B&CP) is seeking a Photobiology/Biochemist to join our R&D division's Preclinical Evaluation Department.

As a Group Leader/Principal Scientist you will lead and direct photobiology research to support the sunscreen/skin care business. The scope of your responsibilities will include applied research: specifically, developing methods for product and prototype evaluations, and identifying and implementing new technologies as they relate to the product development group. An MS or PhD in Photobiology/Biochemistry and at least 5+ years related experience is required along with excellent oral and written communication skills and the ability to supervise 3-4 scientists. Publication and academic affiliation are encouraged. Some travel required.

Located outside of Princeton, we offer a dynamic working environment as well as highly competitive compensation and benefit, including an on-site corporate fitness program.

If you are an emerging authority in your field seeking to join a company where your skills are recognized and rewarded, forward a resume, including salary history and requirements to: Human Resources, Department: Photo

Equal Opportunity Employer MF/H/V
FACULTY POSITIONS. Section of Genetics, Duke University Medical Center. A newly created Section of Genetics, Duke University Medical Center invites applications for several tenure-track, junior level faculty positions. Although individuals utilizing molecular genetic approaches to questionable traits in the most important areas of biology will be considered, we are particularly interested in those applying genetic approaches to the study of development and differentiation. A description of position, the research and the names of three references to: Joseph R. Nevins, Head, Section of Genetics, Duke University Medical Center, P.O. Box 2350, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN GASTROINTESTINAL RESEARCH: IN THE BASIC OR CLINICAL SCIENCES

A faculty position is available for a basic or clinical investigator in the gastroenteric sciences in a large academic Department of Gastroenterology. Applicants should possess M.D. or Ph.D. degree and have evidence of an independent program of research with extramural, peer-reviewed funding. Those with clinical training in gastroenterology can develop within this large departmental framework the skills that they may be most interested in utilizing. The faculty rank is also flexible, commensurate with the successful applicant's experience and academic standing. The field of study is not restricted. Current faculty have interests in basic and applied research in liver function and disease, pancreatic function and disease, gastrointestinal peptides, gastrointestinal motility, epidemiology of digestive diseases, and the functional bowel diseases. Outstanding facilities are also available, and the opportunities for collaborative research are excellent. Applicants would be expected to have, or to establish, credentials in the national arena of academic gastroenterology.

Please forward applications, including curriculum vitae, bibliography, a summary of research interests, and the names of three references, to:\nSidney F. Phillips, M.D. Gastroenterology Unit Mayo Clinic Rochester, MN 55905 An Equal Opportunity/Affirmative Action Employer.
**Environmental Microbiologist or Engineer**

Procter & Gamble has an immediate entry-level opening for an Environmental Microbiologist or Engineer in the Environmental Safety Department (ESD). ESD is a corporate organization, responsible for the Company’s environmental research programs. Candidates should have a Ph.D. degree and relevant experience. Responsibilities will include investigating the biodegradation of organic chemicals in wastewater treatment systems and in aquatic and terrestrial environments. The ideal candidate should have background in microbial ecology, microbial physiology and wastewater treatment. Experience with radioisotopes and application of GC, TLC and HPLC separation techniques also is desirable.

Applicants must be presently authorized to work in the U.S. on a full-time basis. Resumes should be forwarded to:

Dr. T. J. Logan
Microbiologist/Engineer Position/Box S
The Procter & Gamble Company
P.O. Box 398707
Cincinnati, Ohio 45239-8707

Allow 6-8 weeks for response.

Procter & Gamble is an EQUAL OPPORTUNITY EMPLOYER.

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**Electrophysiologist**

The Laboratory of Clinical Studies, National Institute on Alcohol Abuse and Alcoholism, invites applications for an electrophysiologist to carry-out human studies designed to investigate brain mechanisms underlying the behavioral effects of alcohol. Ongoing studies involve adult and child normal volunteers and patients with organic brain syndromes associated with alcoholism. We are looking for an individual capable of participating in an interdisciplinary group well-versed in the techniques of brain imaging, electrophysiology, pharmacology, and behavior. Selected individual will have sole use of a laboratory consisting of four separate set-ups of 32, 25, 24, and 16 leads under the control of DEC 11/73 acquisition computers; Vax 3400 and 3520 serve as analysis computers. Technical support is already in place and committed to electrophysiological studies.

Applicants must have a Ph.D. or M.D. or equivalent experience. Position is offered, depending on experience, at a salary range of $24,000 to $46,800.

The Laboratory is located at the National Institutes of Health in Bethesda, Maryland just north of Washington, D.C. If you have an interest in this position, please send a letter describing yourself and include a statement of scientific interest, a resume, and the names of three references to:

Dr. Michael Eckardt
Laboratory of Clinical Studies
NIAAA
Building 10, Room 3C102
9000 Rockville Pike
Bethesda, MD 20892

The position is available now.

NIAAA is an Equal Opportunity Employer.

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**Biology**

**Write This Way to Success.**

Searle, a world-wide leader in the pharmaceutical industry, has several exceptional opportunities for qualified individuals in our Medical Reports and Documentation organization.

As a member of Corporate Medical and Scientific Affairs, the professionals we seek will write clinical reports and other documents pertaining to clinical studies. These positions work closely with several other departments in the review and revision of assigned writing.

We seek candidates with a Ph.D. or Master’s in a life sciences field and up to 5 years of experience in writing clinical studies for the pharmaceutical industry.

Additionally, ideal candidates will be detail-oriented and possess the ability to work on multiple projects simultaneously in a fast-paced environment. The ability to work well with others in a review capacity is essential.

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An equal opportunity employer M/F/H.
PHD. MOLECULAR GENETICS
BS/M.S. SCIENTISTS
THE UNIVERSITY OF MICHIGAN
HUMAN GENOME CENTER

The University of Michigan has recently received funding for a Human Genome Center. Envisioned "Genomic Technologies and Genomics," the center will focus on the development of technological advances in physical mapping, genetic mapping and DNA sequencing, and the application of these approaches to human disease. Position(s) could be filled for PhD level molecular geneticists with experience in PCR methods, automation, molecular cytogenetics, advanced DNA sequencing, and/or yeast artificial chromosomes; (i) a Ph.D. statistical geneticist to develop advanced statistical methods for human gene mapping; and (ii) six B.S./M.S. level scientists, with experience in molecular genetics techniques and applications. Please send resume and names of three references to: Dr. Francis Collins, GTGD, Human Genome Center, The University of Michigan, Medical School, 4570C MSRB II, Ann Arbor, MI 48109-0650.

POSTDOCTORAL POSITIONS, Joint project between the Cardiovascular Research Institute (CVRI) and Drs. Charles Craik and Robert Fletterick of the University of California, San Francisco, Biochemistry Department. Structure/function studies on lipoproteins (inflammation and atherosclerosis). Experience in molecular biology required. Send curriculum vitae and three references to: Ph. D., CVRI, University of California, San Francisco, CA 94143-0911, University of California, San Francisco, CA 94143-0911. An Equal Opportunity Employer.

Two POSTDOCTORAL POSITIONS available, one to study the genetics of affective disorders using linkage analyses, the other to participate in the development of recombinant DNA production of the human genome. Candidates with experience in molecular biology techniques are preferred. Send curriculum vitae and at least two letters of recommendation to: Danielle S. Gerhard, Department of Genetics, Washington University School of Medicine, 4566 Scott Avenue, St. Louis, MO 63110.

MOLECULAR GENETICIST/ PSYCHOPHARMACOLOGIST

Mayo Clinic/Mayo Medical School invites applicants for a FACULTY POSITION in the Department of Psychiatry and Psychology in collaboration with members in the Department of Pharmacology and/or the Department of Biochemistry and Molecular Biology. Candidates should have significant interest in major psychiatric disorders and be pursuing these interests with the methods of molecular genetics and/or molecular pharmacology. Molecular genetics in psychiatry is desirable but not required. Mayo will provide generous space and start-up funds in addition to an attractive package of benefits and benefits. Academic rank will be determined by the credentials of the applicant. Applications are also encouraged. Submit curriculum vitae with names and addresses of three or more references to: Toshikiro Murata, M.D., Chairperson, Search Committee, Department of Psychiatry and Psychology, Mayo Medical School, Rochester, MN 55905. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. Available in January 1991 to foreign or nationals to work on ion channel modulation in spliceless, patch clamp and single channel reconstitution in bilayers. Salary commensurate with qualifications according to NIH guidelines. Send curriculum vitae to: Dr. Barrie Stefani, Professor, Department of Molecular Biology and Biochemistry, Yale University, New Haven, CT 06520. An Equal Opportunity Employer.

POSTDOCTORAL POSITION IN NEUROBIOLOGY. A staff position is open for a period of 2 years. Projects will focus on: (i) the mechanisms and interactions with different transmitter systems in the rat. Applicants with a Ph.D. and with significant experience in behavioral pharmacology and neurobiology are encouraged to apply. The interested candidates should contact: Dr. Carl Banzig, Behavioral Biology Laboratory, Swiss Institute of Technology (ETHZ), Torunstrasse 1, ETH-Zentrum, CH-8092 Zurich, Switzerland.

POSTDOCTORAL POSITION IN PARASITE MOLECULAR BIOLOGY. A position is available for an individual with a Ph.D. or equivalent degree in chemical genetics, molecular biology, or microbiology to investigate the molecular biology of trypanosome (Trypanosoma brucei) invasion by the rickettsia Anaplasma marginale, in the course of a recently initiated project. Experience in several of the following areas is expected: (i) isolation and characterization of mutants, (ii) development of a rabbit model for cloning of genes, and (iii) experience in mammalian cell culture and molecular biology. Send curriculum vitae including a statement of research interests and a bibliography to: Dr. David R. Allred, Department of Infectious Diseases, Building 471 Mowry Road, IPIAS 653, University of California, Davis, CA 95616. The University of Florida is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR ENDOCRINOLOGY. A POSTDOCTORAL POSITION (M.D. or Ph.D.) to study thyroid hormone action and c-erba structure/function. The appointee will conduct research on the characterization of thyroid hormone receptor mutants and on the role of thyroid hormones and c-erba proteins in cellular growth and transformation. Experience in molecular genetics, tissue culture, and/or protein biochemistry desired. Please send curriculum vitae to: Stephen J. Kuo, M.D., Ph.D., Department of Medicine, East Carolina University, Greenville, NC 27858. An Equal Opportunity/Affirmative Action Employer. Federal law requires proper documentation of identity and employability at the time of employment. (It is requested that documentation be included with your application.)

POSTDOCTORAL APPOINTMENTS. The Iso- tope and Structural Chemistry Group (INC-4) at the Los Alamos National Laboratory seeks candidates for an immediate opening to study the biochemistry of pyrroloquinoline quinone (PQQ). The successful candidate will join an active group of researchers associated with the National Stable Isotope Resources and will use 13C labeling and NMR techniques to examine either (i) the biosynthesis of PQQ in the methanotrophic bacterium Methylo bacterium extemporami AM1 or (ii) the catalytic mechanism of the PQQ-dependent methanol dehydrogenase. The group maintains well-equipped fermentation and biochemistry laboratories as well as three modern spectrometers. Candidates must have a Ph.D. in chemistry, biochemistry, microbiology, or related field. The candidate need not have experience in NMR spec- trometry. For more information on the research projects, please contact: Dr. Bob Belfort, Wadsworth Labs, Department of Molecular Physiology, Los Alamos National Laboratory, Los Alamos, NM 87545. Telephone: 505-665-2560. Postdoctoral ap- pointee salaries are for 1 year, may be renewed for a second year, and pay $34,920 to $36,780 per annum. U.S. citizenship is required. Applicants receive employee benefits, including insurance and moving expenses. To formally apply, send curriculum vitae, three letters of reference, graduate and undergraduate transcripts, and a letter to: Dr. Bob Belfort, Wadsworth Laboratories, Department of Public Health, State University of New York, Box 509, Empire State Plaza, Albany, NY 12240-0500.

Affirmative Action/Equal Opportunity Employer.

EMORY UNIVERSITY

Vice President for Arts and Sciences and Dean of Emory College

Emory University invites applications and nominations for the position of Vice President for Arts and Sciences and Dean of the College. The Dean is responsible for providing educational leadership and serving as the principal intellectual voice within the College, for planning and overseeing the development of programs in the Arts and Sciences, and for the administration of the College, including appointments and budget. The College currently enrolls approximately 4300 students. It is one of eleven schools and divisions within the University. Approximately 350 FTE faculty teach in a total of 26 departments and several interdisciplinary bachelor's degree programs, as well as in the Graduate School of Arts and Sciences.

Candidates must have a record of teaching and scholarly accomplishments with appointment to the rank of professor. Evidence of administrative interest and aptitude is required, as is commitment to rigorous liberal arts education. Applicants should submit a letter detailing their interest and pertinent experience, including some statement of views concerning educational leadership, together with a current curriculum vitae and the names of several references. Applications and letters of nominations should be sent to: Professor Frank Manley, Chair, College Dean Search Committee, Office of the Provost, Emory University, 404 Administration Building, Atlanta, GA 30322. The search committee will begin reviewing dossier November 1 with a view to making the decision by mid-March.

Applications from women and from minority can- didates are encouraged. Emory is an Affirmative Action, Equal Opportunity Employer.

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Let the free Science product information service put you in touch with the vendors whose products you will need. Simply write us a letter stating the specifics about your proposed lab and the instruments and supplies you need. We will do the rest. Write to:

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1515 Broadway
New York, NY 10036

The World of Research
THE UNIVERSITY OF BRITISH COLUMBIA
HEAD DEPARTMENT OF MEDICINE
The Faculty of Medicine, University of British Columbia, invites applications and nominations for the position of Head of the Department of Medicine.
We seek an academic leader to be responsible for directing and developing the teaching and research programs of the department which functions in four teaching hospitals in Vancouver. The Department has 75 Full-time and 189 Clinical/Part-time Faculty members and attracts research support of $5.5 million annually. A candidate should hold a specialty qualification in Medicine and have a proven record of scholarly activity, extensive clinical experience, and a commitment to undergraduate and graduate medical education. Starting date will be July 1, 1991. Salary will be commensurate with experience and qualifications.
The University of British Columbia is committed to the Federal Government’s employment equity program and encourages applications from all qualified individuals. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents.
Applications, accompanied by a detailed curriculum vitae and the names of two references, should be directed by November 30, 1990 to:
Dr. M.J. Hollenberg
Dean, Faculty of Medicine
Room 317, Instructional Resources Centre
University of British Columbia
2194 Health Sciences Mall
Vancouver, B.C. V6T 1W5

BIOLOGY RESEARCH ASSOCIATES

The CARDIOVASCULAR RESEARCH GROUP of the Upjohn Company is seeking applications for the full-time position of Biology Associate. Under the direction of a research scientist, the selected candidate will investigate the action of novel pharmaceutical agents on myocardial blood flow and function. Studies will be performed in pathophysiological models of ischemia and infarction. Applicants with surgical experience preferred. A B.S. or M.S. degree in Biology or closely related discipline plus relevant, recent laboratory experience is required. Refer to position No. 5710-HA.

The DERMATOLOGY RESEARCH GROUP of Upjohn Laboratories has an opening for a Biology Associate. A B.S. or M.S. in a biological science plus experience in skin and/or hair growth research are necessary. Candidates must have skills in TLC, HPLC and modern morphological procedures, and be free of animal-related allergies. Will conduct in vivo research using animal models as well as test and evaluate chemical agents that regulate hair growth. Position No. 5712-HA.

Upjohn offers a competitive compensation and benefits package in addition to a stimulating, multi-disciplinary research environment at our modern laboratories. Qualified applicants are invited to submit their resumes, cover letters and a copy of transcripts to: The Upjohn Company, Corporate Recruiting, 7000 Portage Road, Kalamazoo, MI 49001-0199. Refer to one of the above position numbers in your cover letter. An Equal Opportunity Employer M/F.

Our Commitment to Scientific Excellence Continues...

Upjohn

BIOCHEMISTRY FACULTY POSITION LEHIGH UNIVERSITY

Lehigh University has recently added 30,000 square feet of laboratory space committed to a Center of Molecular Biosciences and Biotechnology, an interdisciplinary program comprised of three divisions: biochemistry, molecular biology and biochemical engineering. Applications are invited from outstanding individuals with at least two years of postdoctoral experience for an open-rank tenure-track faculty position in the Division of Biochemistry within the Department of Chemistry. The successful applicant is expected to participate in teaching undergraduate and graduate courses and to establish a strong, independent externally-funded research program. Research area is open but special consideration will be given to those involved in areas which overlap and complement existing programs within the Center and/or Department. Applicants should send curriculum vitae, list of publications, brief description of research objectives and arrange to have three letters of reference sent to Dr. J.A. Alhadef, Biochemistry Search Committee, Department of Chemistry, Lehigh University, Bldg. A, MTC, Bethlehem, PA 18015. Applications which are not complete (including letters) by November 30, 1990, cannot be guaranteed full consideration. Lehigh University is an Affirmative Action/Equal Opportunity Employer.

Postdoctoral Scientist Analytical Research

Genentech, a leader in the field of biotechnology research, has a one year appointment available for a Postdoctoral Scientist with an option for renewal.

You will join a research group, directed by Dr. William Hancock, applying modern analytical methods (HPLC, LC/MS, tryptic mapping, capillary electrophoresis, protein chemistry) to the characterization of recombinant DNA produced proteins. To qualify, you must have experience in protein chemistry and chromatographic techniques and will explore the use of new analytical methods to identify and characterize protein and nucleic acid variance.

Genentech offers an extensive benefits package which includes child care facilities, free health club membership, an employee stock purchase plan and fully paid medical/dental/vision coverage. For immediate consideration, please send your resume to Yvonne Davino, Genentech, Inc., Human Resources Dept. SBH, 400 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal employment opportunity. Women and minorities are encouraged to apply.
Analytical Chemist

In this role, you'll lead a team responsible for performing analyses to support materials and monitors reaction. We require a PhD and a strong HPLC and analytical chemistry background. You will also need good communication skills and the ability to head the development of new analytical methods.

Group Leader

Computational Chemistry

In our Computer Aided Drug Design Group, you'll direct a multi-faceted team of chemists in the discovery of new medicinal agents. You must possess a PhD in Chemistry and 5 years' related post graduate experience. Proven skills in integrating the application of computational chemistry with other structural techniques such as 2D-NMR and single crystal X-Ray diffraction is a must. Strong management background essential.

Chemical Biologist

In our collaborative environment, you will work closely with other scientists to solve drug design problems. To do so, you'll perform molecular modeling of structural types ranging from small molecules to proteins. Your PhD must be backed with 1-5 years' experience in computational chemistry. We offer competitive compensation and relocation including incentive bonus. For prompt consideration, please send resume to: Syntex, Professional Staffing Dept. KHS/SC/2, 3401 Hillview Ave., Palo Alto, CA 94303. We are an equal opportunity employer.

BIOPHYSICIST/PHYSICIST/BIOCHEMIST

POSTDOCTORAL RESEARCH ASSOCIATE (Ph.D. or M.D.) and TECHNICIAN (minimum B.S.). Positions available immediately effective in year future to study structure-function relationships of hemoglobin using state-of-the-art techniques. Experience required in protein purification (or latex flow, HPLC, Raman). Send curriculum vitae and names, addresses, and telephone numbers of three references to: Drs. R. E. Hendel and M. Friedman, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, NY 10461.

POSTDOCTORAL RESEARCH POSITION

A position is available immediately for a Ph.D. biochemist or pharmacologist with interest in Parkinson's disease and expertise in enzymology, receptor regulation, and signal transduction. The successful individual will join a team of researchers associated with the NIH supermicroscope. Resources have strong backbones in synthetic organic chemistry, biochemistry, and NMR spectroscopy. The candidate must maintain excellent communication skills, facilities, and biochemistry laboratories, as well as three modern NMR spectrometers. Candidates must have a Ph.D. in chemistry, biochemistry, biochemistry, or related field. Preference given to candidates with a strong background in bioorganic/nuclear acid chemistry. For a start date, please contact either James A. Fee or Louis A. Silver, INC-4, MS C345, Los Alamos National Laboratory, Los Alamos, NM 87545. (505-667-0774 or 505-667-5324. Postdoctoral appointments are for 1 year, may be renewed for a second year, and pay $34,920 to $36,780 per annum. U.S. citizenship is required. Appointees receive employee benefits, including moving and moving expenses. To formally apply, send curriculum vitae, three letters of reference, graduate and undergraduate transcripts, and Los Alamos National Laboratory application form. Send no applications to Maureen Cohen, Field Development Division, PD-90-076, MS P280, Los Alamos National Laboratory, Los Alamos, NM 87545. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP IN Atherosclerosis and Lipid Research Division of the Department of Internal Medicine is seeking two qualified M.D.'s and/or Ph.D.'s to work in the area of molecular genetics and lipoprotein metabolism. This is a funded position with a combined one-year stipend. Send curriculum vitae and three letters of reference to: Dr. Joseph E. Bragdon, Department of Pathology, Given Building, The University of Vermont, Burlington, VT 05405. An Equal Opportunity/Affirmative Action Employer.
Molecular Biologist/
Molecular Virologist

The Hepatitis Research Unit in the Macfarlane Burnet Centre for Medical Research is internationally recognised for the study of hepatitis A and hepatitis B virus replication and has recently attracted significant funding to continue and extend this research.

A vacancy exists in the unit for a senior scientist with experience in molecular biology to join a growing team and undertake studies on the molecular genetics of viral replication and assembly. The appointee will require expertise in CDNA cloning, site-directed mutagenesis, DNA sequencing, and the construction of recombinant DNA molecules for transfection of mammalian cells and transcription of RNA in vitro.

The position is funded for three years in the first instance, with a possible extension for a further three years. Salary will be commensurate with qualifications and experience, with appointment up to the level of Senior Research Officer or Senior Research Fellow (NH&MRC Guidelines).

For further information contact Dr Stephen Locarnini on (61-3) 488 2239 or Dr David Anderson (61-3) 488 2395, fax (61-3) 481 3816. Written applications including names of 3 referees to Employee Relations Manager by 30 October 1990.

Fairfield Hospital
Yarra Bend Road, Fairfield, Vic. 3078, Australia.

ENVIOTHERAL
PROFESSIONALS

Ebasco Environmental, a division of EBasco Services, Inc., a rapidly growing environmental consulting firm, currently has the following outstanding professional opportunities available:

AQUATIC ECOLOGISTS
(SR. & STAFF LEVELS)

Technical background in aquatic ecology, fisheries, population dynamics and/or limnology required. Hydro reclamation, IFIM, HEP and related experience desirable. Staff positions, requiring 0-3 years' experience and senior positions, requiring a minimum of 3 years' experience are available. MS/Ph.D preferred. Additionally, candidates must possess good written and oral skills. Knowledge of statistics and computer skills desirable. Impact assessment (EIS) experience preferred.

JR./SR. WETLANDS ECOLOGISTS

The successful candidates should have knowledge of field delineation of wetlands using multi-parameter methodology. Experience with freshwater wetland mitigation plans and regulatory compliance also desired. Effective oral and written communication skills are essential. Advanced degree preferred but not necessary.

These positions are available at our Lyndhurst, N.J. headquarters as well as many of our other offices throughout the country. We offer excellent growth opportunities and potential for career advancement as well as competitive salaries and a comprehensive benefits package. Please send resume including salary requirements and area of geographic preference to: Christine M. Sullivan, Ebasco Services Incorporated, 160 Clubb Avenue, Lyndhurst, NJ 07071. An equal opportunity employer m/f/h/v.

McNeil Specialty Products Company, a Johnson & Johnson company located in New Brunswick, New Jersey, has an opening for a Toxicologist. Successful candidate will provide support in a start-up specialty food company. Responsibilities include assisting in the development of safety protocols for animal toxicology studies conducted at contract laboratories. Prepare and present safety data information both internally and externally, including interfacing with management and governmental regulatory agencies. In addition, assist in the preparation of scientific publications of interest to McNeil Specialty and author publications of scientific work performed.

This position requires a Ph.D. in toxicology or closely related discipline. Candidates with 0-3 years of post-doctoral experience preferred. Candidates should have a broad background in general toxicology and an interest or experience in the pre-clinical safety assessment of new chemicals, drugs or food additives.


McNeil Specialty Products Company

Johnson & Johnson

Equal Opportunity Employer M/F/H/V

Leadership Beyond Compliance
If you want to get on the fast track, come join us at XOMA! Our unique monoclonal antibody-based medical research is producing treatment for life-threatening diseases. As we move from research to commercial products, we’re anticipating tremendous growth. Here is your chance to be a part of it:

**Pharmacologist**

In this integral position, you’ll design, conduct and interpret pharmacological studies on new products for the treatment of immune-related diseases.

Qualified candidates should have a PhD in pharmacology or related discipline with 1-3 years’ post-doctoral training. Experience in in vivo pharmacologic evaluation is essential. Background in immunological model systems, computer use and technical supervision is desirable.

**Check Our Data.**

At XOMA, you’ll find a supportive 300-person company that’s doing exceptional science. We offer competitive salaries and benefits — plus plenty of room for growth. Send your resume to: Technical Recruiter, XOMA Corporation, 2910 7th Street, Berkeley, CA 94710. EOE.

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**W.M. Keck Center for Computational Biology**

**Postdoctoral Fellowships**

Baylor College of Medicine and Rice University have been funded by the W.M. Keck Foundation to initiate a new research training program in the application of innovative computing technologies to biological problems. We are establishing an integrated interdisciplinary program with participation of a broad spectrum of faculty.

The primary training faculty include:

- **C.T. Caskey** (Baylor), Human genome sequencing
- **W. Chiu** (Baylor) 3-D reconstruction of macromolecular assemblies
- **G. A Gorry** (Baylor) Artificial intelligence
- **K. W. Kennedy** (Rice) Parallel processing in computing
- **G. C. King** (Rice) Macromolecular structure/dynamics and NMR
- **C. B. Lawrence** (Baylor) Computer analysis of sequence data
- **K. S. Matthews** (Rice) Gene regulation
- **G. N. Phillips, Jr.** (Rice) Protein dynamics and X-ray crystallography
- **F. A. Quiocho** (Baylor) Protein crystallography and molecular recognition

Persons with backgrounds in Computer Science, Mathematics, Physical, Chemical, and Biological Sciences are encouraged to apply. Interested applicants should send curriculum vitae, at least two letters of recommendation, and a statement of the research interest in Computational Biology to either of these faculty.

Dr. Wah Chiu
Baylor College of Medicine
One Baylor Plaza
Houston, TX 77030
or FAX 713-798-3729

Dr. George N. Phillips, Jr.
Rice University
P.O. Box 1892
Houston, TX 77251

Baylor College of Medicine and Rice University are equal opportunity employers.

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For further information, telephone Ed Keller, Recruitment Advertising Manager, or Gwen Canter, Advertising Traffic Manager, at *Science*: 212-730-1050, or write to: *Science*, 1515 Broadway, New York, NY 10036

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Research Associate
Molecular Biology

Genentech, Inc., a leader in the field of biotechnology, has a position available in our Safety Evaluation Department.

You will have primary responsibility for technical support for the in-situ hybridization facility. Duties include preparing tissue specimens, including cryostat sectioning, preparing riboprobes and performing multiple, large volume in-situ hybridization experiments.

We require a BS/MS in Molecular Biology, Cell Biology or equivalent and 2+ years relevant experience. Additionally, you must have excellent interpersonal skills and the ability to work independently.

Genentech offers an excellent salary and benefits package and believes strongly in personal growth and advancement. For immediate consideration, please send your resume to Nancy Symonds, Genentech, Inc., Dept. NS/AG, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal employment opportunity. Women and minorities are encouraged to apply.

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MOLECULAR BIOLOGY RESEARCH ASSOCIATES

The Upjohn Laboratories Division of the Upjohn Company is offering exciting career opportunities for individuals committed to excellence in basic research. We are seeking highly motivated candidates with bachelor’s or master’s degrees in biochemistry, molecular biology or related disciplines, strong academic backgrounds, two or more years of directly applicable laboratory experience, and experience with relevant molecular biology techniques. These positions have strong, long-term career potential and growth opportunities in rapidly moving, competitive and important fields of research. Interactions with experts in a number of areas of science are available, providing strong opportunities for career growth and skills development.

**BIOCHEMISTRY ASSOCIATE**

Participate in a research program aimed at identifying and exploiting bacterial processes for the discovery of novel antimicrobial agents. The selected candidate will have a background in protein biochemistry. Experience in molecular biology or bacterial genetics/physiology highly desirable. POSITION CODE 5713-HA.

**NEUROBIOLOGY RESEARCH ASSOCIATE**

This project interfaces with the efforts of a number of our biotechnology and CNS laboratories. Aspects of this Alzheimer’s research program include genetic analysis, expression of recombinants in a variety of cellular and transgenic systems, studies of post-translational modifications and metabolism of expressed proteins, in situ hybridization and immunocytochemical analysis. POSITION CODE 5716-HA.

**NUCLEOTIDE SEQUENCING/COMPUTER ANALYST**

Participate in DNA sequencing projects and computer-aided analysis of nucleotide and protein sequences. The successful candidate will have experience in the manipulation of recombinant DNA clones, plasmid, lambda, and cosmid, in performing both chemical and enzymatic sequencing, and the analysis of nucleotide and protein sequence data using computer software. Background and knowledge in computer programming and database searches are desirable. POSITION CODE 5715-HA.

At Upjohn, we are committed to your scientific development, your participation in scientific publications, with participation at scientific meetings encouraged. Our laboratories are located in downtown Kalamazoo, a mid-sized community in southwestern Michigan, midway between Detroit and Chicago. The region is surrounded by rolling hills, numerous lakes and woodlands and provides immediate access to abundant culture and recreational pursuits. Upjohn offers a highly competitive compensation and benefits package in a community with reasonable housing and living costs. Qualified candidates are invited to submit their resumes, cover letters, reference names and copies of transcripts to: The Upjohn Company, Corporate Recruiting, 7000 Portage Road, Kalamazoo, Michigan 49001-0199. Please refer to one of the Position Codes in your correspondence. An Equal Opportunity Employer M/F.

*Our Commitment To Scientific Excellence Continues...*

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Ph.D. Biochemistry or Pharmacology
Research Investigator

Bristol-Myers Squibb Pharmaceutical Research Institute is continuing to expand our efforts in basic biomedical research. Currently, we have an opening for a Research Investigator at our New Brunswick, NJ campus.

In this position, you will help a multidisciplinary team examine the interaction of new receptor binding ligands in vitro and in vivo. The successful candidate will have a Ph.D. in Biochemistry or Pharmacology together with 0-2 years post-doctoral experience. Ideally, you will have practical experience in the isolation and purification of receptors.

Please forward your resume to: Bristol-Myers Squibb Pharmaceutical Research Institute, Human Resources Department 161, P.O. Box 4000, Princeton, NJ 08543-4000. An equal opportunity employer.

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Bristol-Myers Squibb Company
RESEARCH SCIENTIST

The Department of Anesthesiology at the Nassau County Medical Center is seeking an individual to:

1. Plan and supervise the expansion of our present research laboratory facilities;
2. Maintain and supervise our vascular smooth muscle laboratory;
3. Assist the Departmental Staff with research projects;
4. Participate in didactic program for residents.

A Ph.D. with a minimum of two years postdoctoral experience, good communication and data analysis skills, computer programming knowledge, and publication record are necessary.

Excellent salary and fringe benefits package. Interested candidates should send their CV and the names of three references in confidence to:

KENNETH J. FREESE, M.D.
Chairman
Department of Anesthesiology

NASSAU COUNTY MEDICAL CENTER
2201 Hempstead Tpke.
East Meadow, NY 11554

U.S. POSTAL SERVICE
Statement required by the Act of 12 August 1970, Section 3685, Title 39, United States Code, showing the ownership, management, and circulation of:
1.6. Science is published weekly on Friday, except the last week in December, at 1333 H Street, NW, Washington, DC 20005. Date of filing: 2 October 1990. This is also the address of the publisher, the editor, and the managing editor, who are, respectively, Richard S. Nicholson, Daniel E. Koslsh, and Monica M. Brandt.
7. The owner is American Association for the Advancement of Science, 1333 H Street, NW, Washington, DC 20005.
8. Known bondholders, mortgagees, and other security holders owning or holding 1 percent or more of total amount of bonds, mortgages, or other securities:
9. The purpose, function, and nonprofit status of this organization and the exempt status for federal income tax purposes have not changed during the preceding 12 months.
10. The average number of copies of each issue during the preceding 12 months is:
   (A) Total number of copies: 165,571;
   (B) Paid circulation: (1) sales through dealers and carriers, street vendors, counter sales: None; (2) Mail subscriptions: 153,996; (C) Total paid circulation: 153,996;
   (D) Free distribution by mail, carrier, or other means: samples, complimentary, and other free copies: 3,293;
   (E) Total distribution: 157,289;
   (F) Office use, leftover, unaccounted, spoiled after printing: 8,282;
   (G) Total: 165,571.
   Actual number of copies of single issue published nearest to filing date are (A) Total number of copies printed: 162,463;
   (B) Paid circulation: (1) Sales through dealers and carriers, street vendors, counter sales: None; (2) Mail subscriptions: 154,469; (C) Total paid circulation: 154,469;
   (D) Free distribution by mail, carrier, or other means: samples, complimentary, and other free copies: 5,169;
   (E) Total distribution: 159,638;
   (F) Office use, leftover, unaccounted, spoiled after printing: 5,169;
   (G) Total: 162,463.
   I certify that the statements made by me above are correct and complete. (signed) Michael Spinella, Director, Membership/Circulation.
RESEARCH SCIENTISTS

Applications will be accepted until the positions are filled.

Biogenetic Services, Inc. (BGS) is a privately owned company specializing in providing state-of-the-art molecular biology, genetics, and related services to commercial companies, private individuals, and public institutions. Positions are available immediately for individuals with BS, MS, or PhD degrees who have an interest and experience in conducting RFLP and/or PCR assays (including human paternity testing) in a molecular biology laboratory.

Applications from candidates with a degree and laboratory experience with RFLP and/or PCR technology will be given preference. Candidates should send letter of application and resume, including names and telephone numbers of three references.

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POSITIONS OPEN

SENIOR RESEARCH ASSOCIATE
SECTION LEADER
PERMANENT POSITION

Experienced (immuno) histochemist at H. M. Bligh Cancer Biology Laboratory, UHS/Chicago Medical School. Benchwork-oriented individual with meticulous working habits and desire to do original research on human cancer and the effects of drugs on tumor cell membrane receptors. Knowledgeable in light, ultra-light, and some transmission electron microscopy. Academic appointment possible. Technical help available. Exceptionally outstanding salary and benefits in view of the importance of the academic task; not grant-dependent. Send curriculum vitae, details of benchmark expertise, and bibliography to: Dr. Lyke Bluff, IL 60044.

Equal Opportunity Employer, M/F.

Position available for a molecular, cell, or reproductive biologist at the RESEARCH ASSOCIATE, RESEARCH INSTRUCTOR, OR RESEARCH ASSISTANT PROFESSOR level in anatomy and cell biology at the University of Virginia Medical School. The appointment level will be determined by qualifications. An outstanding individual will be selected to join a team studying the cell and molecular biology of human spermatogenesis, toward the goal of contraceptive vaccine development. Applicants should have a Ph.D. or M.D. degree and a strong record of publications involving any of several approaches: recombinant DNA, protein expression, monoclonal antibody–antigen characterization, and reproductive biology. Send curriculum vitae and names of three references to: Dr. John C. Herr, Department of Anatomy and Cell Biology, Roy G. Vagelos, University of Virginia, Charlottesville, VA 22908. Equal Opportunity/ Affirmative Action Employer.

FLOW CYTOMETRY OPERATOR. RESEARCH ASSOCIATE position available 1 January 1991 to work in a Center Epics Flow Cytometer, A B.S. degree in biological or physical science is required. An M.S. degree and experience with computers and flow cytometry is given to applicants with experience as a flow cytometry operator or user. Salary is $24,000 to $28,000 per year. Application deadline 30 December 1990 or until position is filled. Applicants should submit curriculum vitae and names of three references to: Dr. Sandra Ewald, Department of Pathobiology, Auburn University, AL 36849. Auburn University is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

RESEARCH SCIENTIST. To perform scientific research on physiology, pharmacology, and pathophysiology of the lymph nodes in laboratory animal models and humans. The individual must have a Ph.D. or equivalent in biomedical sciences and have experience in bioassays, including isolation of cell subsets by pancreatic acini, radioimmunoassay of gut hormones, development of high-performance liquid chromatography (HPLC), and autoradiography. Experience must include at least 2 years of hands-on experience in HPLC; immunocytochemistry (antibody production, characterization and purification, and conjugation, and radioimmunoassays); secretory studies of the stomach, intestine, and pancreas. Additional experience in motility research of the GI tract is required. Starting annual salary is $30,000. Submit résumé or complete application to: William Y. Chey, M.D., D.Sc., Isaac Gordon Center for Digestive Diseases and Sciences, The Genesee Hospital, 224 Alexander Street, Rochester, NY 14607. Affirmative Action/Equal Opportunity Employer.

WETLANDS SCIENTIST

A lead scientist is needed to plan and execute a national wetlands water quality research program. The program involves determining biogeochemical indicators of wetland health and the ability of wetlands to attenuate anthropogenic stressors, maintaining data quality, and developing standards and criteria for wetlands. Candidates must have a Ph.D. and postdoctoral experience in the above areas and a proven track record. Salary will be commensurate with experience. Send curriculum vitae and names of three references to: Alan Monroc, ASCE Corporation, 6201 Congdon Boulevard, Duluth, MN 55810, by 20 November 1990. ASCE is an Equal Opportunity Employer.

POSITIONS OPEN

CENTER FOR ENERGY AND ENVIRONMENT RESEARCH
UNIVERSITY OF PUERTO RICO

The Tropical Ecology Division invites applications for two RESEARCH APPOINTMENTS in (i) ecosystem ecology with expertise in watershed studies and (ii) irrevocable population ecology to participate in a research program with the University of Puerto Rico and the Luquillo Experimental Forest Long-Term Ecological Research (LTER) Program. Requirements include a Ph.D. in Environmental Science, a strong publication record, the ability to work closely with other scientists, and a willingness to develop a research program centered on tropical rain forest. A knowledge of Spanish would be useful.

Two POSTDOCTORAL POSITIONS are also available in the following fields: (i) modeling of ecosystem processes, (ii) geographic information systems/remote sensing, or (iii) plant ecology. These are 2-year positions with the possibility of extension.

Applicants should send a statement of research interests, three letters of reference, and curriculum vitae by 20 November 1990 to: Center for Energy and Environment Research (CEER) Humboldt Laboratory, University College Station Mayaguez, PR 00708. CEER is an Equal Opportunity Employer, M/F/H/V.

SITUATIONS WANTED

Ph.D. MICROBIOLOGIST/IMMUNOLOGIST, author of 80 publications, seeks a nonresearch position in teaching or administration. Resides to: 2853 Texas Avenue South, Suite C-167, College Station, TX 77840.


PHYSICIAN/ENGINEER, M.D./M.S.E.E. Fortune 100 experience. Medical image processing, signal processing, neural networks, advanced computational techniques. Seeking technical leadership position. Box 116, SCIENCE.

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SCIENCE, VOL. 250
SUPER TEAM FOR THE SUPER COLLIDER.

The Grumman-Ansaldo Team. No one is more qualified to produce dipole magnets in the U.S. for the Superconducting Super Collider (SSC). Our team combines extensive experience in magnet design and assembly, systems integration, cryogenics, and high-rate production. We represent the only company in business today to have built dipoles like those required for the SSC. And at rate production. We’ve built more superconducting magnets for high-energy physics and fusion applications than all other companies combined. In addition, we have a successful 30-year track record of providing technological support to the DOE’s national laboratories. Together, Grumman and Ansaldo are determined to make the SSC a smashing success.

Grumman Space Systems,
Bethpage, NY 11714.

The Grumman Team
Gilson fraction collectors have always been reliable. Our newest offers 98% problem-free performance.

Whether you need simple or sophisticated collection techniques, the one thing you need is a collector that performs day-in and day-out. Without jamming. Without breaking down. That's the kind of reliability built into every Gilson fraction collector... from the very first in 1957 to the very latest introduced in 1986.

**Stationary rack system is one of our secrets to problem-free performance.**

Many collectors have rotating carousel racks. Some of our earliest models did, too. But we soon recognized the advantages of a stationary rack. With fewer moving parts, the chance of mechanical problems is greatly reduced. The FC 203, since its introduction three years ago, has achieved a problem-free performance record of 98%. The stationary rack system is just one of the reasons why.

**Built for long-term use... inside and out.**

To assure optimal performance over time, internal drive components are designed for long-term use—even in the cold room. Critical components are metal, rather than plastic, for long-lasting operation.

And, the exteriors of Gilson fraction collectors are durable, too. For example, the FC 203 features a chemically-resistant molded case and keypad to protect the unit inside and out from spills.

**Day-in and day-out convenience, too.**

We also build Gilson fraction collectors for easy installation and use. It starts with compact design. The 202 has the largest capacity of any collector—540 tubes. Yet, it measures only 20 inches wide by 17 inches deep. And the FC 203 takes up only about a square foot of bench space.

Gilson fraction collectors can be used with any HPLC or LC system—ours or other manufacturers'. And three of the collectors can control peripherals such as pumps and chart recorders.

**Choose from five different models:**

- **FC 80 and FC 100 micro-fractionators:** Proven performers for simple time and drop collection. Many of these units have been in use for more than 15 years. FC 100 holds 80 tubes of 100 tubes.
- **FC 203:** Collects fractions by time or drop for simple analyses; peak and time windows enable more sophisticated applications. An affordable multi-mode unit capable of collecting up to 128 fractions.
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To learn more about Gilson fraction collectors and how they outperform others, simply mark the reader service number below. Or call us toll-free in the U.S. at 800-443-7661. (In Wisconsin, call 608-836-1551.)

GILSON

Gilson Medical Electronics, Inc., Box 27, 3000 W. Beltline Hwy., Middleton, WI 53562 USA, Tel: 608-836-1551, TLX: 26-5478, FAX: 608-831-4451

Gilson Medical Electronics (France) S.A., 72 rue Gambetta, B.P. No. 45, 95400, Villiers-le-bel, France, Tel: (33) 1 34.29.50.00, TLX: 606962, FAX: (33) 1 34.29.50.80

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