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ASSISTANT PROFESSOR

The Department of Biology invites applications for a tenure-track position in anatomy and physiology beginning fall 1992. The candidate is expected to teach primarily human anatomy and physiology to health science, nursing, and physical education majors, and to conduct research programs involving both undergraduate and M.S.-level students. Submit a resume and three letters of reference by 31 December 1991 to: Dr. Klaus Brauch, Chair, Department of Biology, California State University, San Bernardino, CA 92407.

BOTANIST, ASSISTANT PROFESSOR. The Department of Biology, Boise State University, seeks applicants for a tenure-track position beginning fall 1992. Ph.D. required. Preference given to candidates with a teaching and research background in systematics and plant biology. Teaching duties include introduction to plant systematics and participation in lower division botany and biology courses. Submit curriculum vitae, reprints, and letters of reference to: Dr. Marc J. Recher, Chair, Search Committee, Department of Biology, Boise State University, Boise, ID 83725. Equal Opportunity Employer.

ASSISTANT PROFESSOR OF BIOLOGY

Continuing its program of growth and development, the Department of Biology at Boston College is seeking applications to fill one or two tenure-track positions. The department seeks candidates with a Ph.D. and have at least 2 years of postdoctoral experience. Candidates are expected to have a Ph.D. and have at least 2 years of postdoctoral experience. Candidates will be expected to contribute to teaching in the area of cell and molecular biology, neurobiology and physiology, genetics, immunology, developmental and reproductive biology, and to excel in teaching and new faculty. Applications must be submitted by 31 December 1991. Early application is recommended since successful candidates will be reviewed as received.

Search Committee
Department of Biology
Boston College
Chestnut Hill, MA 02167

FACULTY POSITIONS. DEVELOPMENTAL BIOLOGY (1) AND GENETICS (2). Tenure-track positions at the ASSISTANT PROFESSOR level. (1) Must have Ph.D. with an emphasis in vertebrate or invertebrate animal morphogenesis and be qualified to teach developmental, marine and introductory biology courses. (2) Must have Ph.D. with strong background in genetics to teach modern genetics (with laboratory) and other courses in area of interest. Applicants must publish recent research and present evidence of excellence. Review of applications will begin December 15, 1991 and continue until the position is filled. Applicants should submit a letter of interest, curriculum vitae, transcripts and three letters of recommendation and applications must be received by the deadline of 31 December 1991. Early applications are encouraged.

Search Committee
Department of Biology
Boston College
Chestnut Hill, MA 02167

POSITIONS OPEN

ASSISTANT PROFESSOR, Department of Biochemistry and Biophysics, University of Hawaii, School of Medicine. Full-time, non-tenure track, to begin 1 January 1992. Annual renewal pending availability of funds and continuation of position authorization. Duties: Teach undergraduate, graduate, and medical courses, carry out active research program in biochemistry and/or biophysics. Participation in departmental and college committees. Must have Ph.D. or equivalent degree with strong background in biochemistry and/or biophysics, postdoctoral experience and a demonstrated potential or ability to obtain extramural funding. Minimum monthly salary: $3,281. Send curriculum vitae and names of three references to: Dr. N. V. Bhagavan, Chair, Department of Biochemistry and Biophysics, University of Hawaii, 9600 East West Road, Honolulu, HI 96822. Telephone: 808-956-8490. Closing date: 11 December 1991 or until position is filled. An Equal Opportunity/Affirmative Action Employer.

BIOLIGISTS. Two tenure-track openings at the ASSISTANT PROFESSOR level beginning fall of 1992. One is for a community biologist. The other, funded by a grant from the Howard Hughes Medical Institute, is for a microbiologist/immunologist who will establish a research facility. All applicants should be able to teach at both the introductory and advanced undergraduate levels. Broad training in biology, appreciation for the liberal arts tradition in education, and commitment to research involving undergraduates are desirable. The college, with an enrollment of 11,000, has a highly selective program for undergraduates and is located on a forested 10,000-acre tract on the Cumberland Plateau of Middle Tennessee. Review of applications will begin on 2 December 1991 but applications will be accepted until suitable candidates are found. The application letter, curriculum vitae, transcripts, and three letters of reference to: Dr. Larry Jones, Chair, Biology Department, The University of the South, Sewanee, TN 37375. An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

BIOLIGIST

Hampden-Sydney College seeks to fill a tenure-track position at the ASSISTANT PROFESSOR level, to start in August 1992. Applicants must hold a Ph.D. in biology, a related discipline, or in an interdisciplinary science program. Preference for Ph.D. in biology, ecology or related discipline; strong commitment to liberal arts education; familiarity with taxonomic requirements; experience in the areas of research, teaching, and extramural funding. Applications should be sent to: Dr. Kevin M. Crowe, Chair, Biology Department, Hampden-Sydney College, Hampden-Sydney, VA 23943. The deadline is 1 December 1991. Hampden-Sydney is an Equal Opportunity/Affirmative Action Employer.

BIOLIGIST, ASSISTANT PROFESSOR. Tenure-track position beginning fall 1992. Teach undergraduate ecology courses; freshwater biology for majors and a non-major course; supervise undergraduate research projects; opportunity to teach in interdisciplinary environmental science program. Qualifications: Ph.D. in biology, ecology or related discipline; strong commitment to liberal arts teaching; familiarity with taxonomic requirements; experience in extramural funding. Applications should be sent to: Dr. Kevin M. Crowe, Chair, Biology Department, Hampden-Sydney College, Hampden-Sydney, VA 23943. The deadline is 1 December 1991. Hampden-Sydney is an Equal Opportunity/Affirmative Action Employer.

The AAAS encourages employers to: actively recruit and employ underrepresented minority groups. Science reserves the right, at its discretion, to decline to publish advertisements submitted to it.


**THE 1992 LOUISA GROSS HORWITZ PRIZE**

The Louisa Gross Horwitz Prize was established under the will of the late S. Gross Horwitz through a bequest to Columbia University, and is named to honor the donor's mother. Louisa Gross Horwitz was the daughter of Dr. Samuel David Gross (1805–1889), a prominent surgeon of Philadelphia, and author of the outstanding "Systems of Surgery" who served as president of the American Medical Association.

Each year, since its inception in 1967, Columbia University has awarded The Louisa Gross Horwitz Prize for outstanding basic research in the fields of Biology or Biochemistry. The purpose of this award is to honor a scientific investigator, or group of investigators, whose contributions to knowledge in either of these fields is deemed worthy of special recognition.

The prize consists of an honorarium and a citation which are awarded at a special presentation event. Unless otherwise recommended by the Prize Committee, the prize is awarded annually. The 1991 awardees were Professors Richard Ernst (Eidgenössische Technische Hochschule-Zentrum, Zürich) and Kurt Wüthrich (Eidgenössische Technische Hochschule-Honggerberg, Zürich).

**QUALIFICATIONS FOR THE AWARD**

The Prize Committee recognizes no geographical limitations. The prize may be awarded to an individual or a group. When the prize is awarded to a group, the honorarium will be divided among the recipients, but each member will receive a citation. Preference will be given to work done in the recent past.

Prospective recipients should be nominated to the Chairman of the Horwitz Prize Committee, Dr. Barry Honig. Nomination letters should include:

1. A summary, preferably less than 500 words, of the research on which this nomination is based.
2. A summary, preferably less than 500 words, of the significance of this research in the fields of biology or biochemistry.
3. A brief biographical sketch of the nominee, including positions held and awards received by the nominee.
4. A listing of up to ten of the nominee's most significant publications relating to the research noted under item 1.
5. A copy of the nominee's curriculum vitae.

Send to: Dr. Barry Honig, Department of Biochemistry & Molecular Biophysics, Columbia University, 630 West 168th Street, New York, New York 10032.

Deadline for receipt of nominations is January 6, 1992.
POSITIONS OPEN

The Department of Biochemistry and Molecular Biology seeks applications at the ASSISTANT PROFESSOR level for a 12-month state-funded tenure-track faculty position effective after 1 July 1992. The position is for an individual with a Ph.D. or M.D. degree, and substantial research and teaching experience using modern approaches in areas of research related to structure/function studies of proteins. The individual is expected to establish an active and externally funded research program. Teaching is at the medical and graduate level. A number of support services are provided. Applicants are required to send a complete resume, letters of reference, an outline of research interests, and a curriculum vitae. The University of Kansas, 39th and Rainbow, Kansas City, KS 66103. Review of applications will begin on 15 January 1992 and continue until the position is filled. The University of Kansas is an Affirmative/Equity Opportunity Employer.

ASSISTANT PROFESSOR
JOHNS HOPKINS UNIVERSITY
BIOCHEMISTRY/MOLECULAR BIOLOGY

The Department of Biochemistry of the Johns Hopkins University invites applications for a tenure-track position in Biochemistry, effective September 1992. Outstanding candidates in all areas of biochemistry and molecular biology are encouraged to apply. The successful candidate will be expected to establish an independent research program in the study of cellular and molecular biology and to contribute to the teaching of histology, gross anatomy, and histophysiology. Research interests in the department include developmental neurobiology, craniofacial development, and sensory motor interactions in the nervous system. Applicants will be expected to submit curriculum vitae, reprints of publications, a statement of future research plans, and three letters of recommendation. Applications should be sent to: Dr. K. E. Eber, Chairman, Department of Biochemistry, School of Medicine, University of Kansas Medical Center, 39th and Rainbow, Kansas City, KS 66103. Review of applications will begin on 15 January 1992 and continue until the position is filled. The University of Kansas is an Affirmative/Equity Opportunity Employer.

TENURE-TRACK POSITION IN BIOCHEMISTRY AND MOLECULAR BIOLOGY UNIVERSITY OF NORTH DAKOTA

The Department of Biochemistry and Molecular Biology, University of North Dakota School of Medicine, invites applications for a tenure-track position at the ASSISTANT OR ASSOCIATE PROFESSOR level. A Ph.D. or M.D. degree, postdoctoral experience, and publications in reputable journals of some extramural support and some teaching experience, preferably at the medical or graduate school level, is highly desirable. The individual will be expected to establish an independent research program and to participate in the training of medical and graduate students. Duties include teaching medical, graduate, and undergraduate students; conducting independent research on compatible areas; and participating in the management of some extramural support. Applicants with an interest in any area of biochemistry and molecular biology will be considered. Salary is negotiable based on credentials. Applicants are to submit their curriculum vitae including publications, one-page synopsis, each, of present and proposed research, and to cause three letters of reference to be sent. Review of completed applications will begin 15 January 1992 and will continue until the position is filled. Send applications to: Dr. Robert C. Nordlie, Chairman, Department of Biochemistry and Molecular Biology, University of North Dakota School of Medicine, Grand Forks, ND 58202. The University of North Dakota is an Equal Opportunity Employer.

ASSISTANT PROFESSOR
DEPARTMENT OF MEDICAL MICROBIOLOGY AND IMMUNOLOGY
Ohio State University Medical Center

The Department of Medical Microbiology and Immunology, The Ohio State University Medical Center, is seeking applications for a tenure-track position at the ASSOCIATE PROFESSOR level in the area of molecular virology. Preference will be given to candidates whose research involves molecular studies on viral infection and replication. Applicants must have a Ph.D. or equivalent level of training. Salary is commensurate with experience. Applications should be submitted, including curriculum vitae, list of publications, a brief statement of research interests (three pages or less) and, in addition, have three letters of recommendation. Applications should be submitted to: Dr. Ronald Glaser, Chairperson, Department of Medical Microbiology and Immunology, 5072 Grivas Hall, 513 AEC, The Ohio State University Medical Center, Columbus, OH 43210. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION
MOLECULAR VIROLOGIST

The Department of Medical Microbiology and Immunology, The Ohio State University Medical Center, is seeking applications for a tenure-track position at the level of ASSOCIATE PROFESSOR in the area of molecular virology. Preference will be given to candidates whose research involves molecular studies on viral infection and replication. Applicants must have a Ph.D. or equivalent level of training. Salary is commensurate with experience. Applications should be submitted, including curriculum vitae, list of publications, a brief statement of research interests (three pages or less) and, in addition, have three letters of recommendation. Applications should be submitted to: Dr. Ronald Glaser, Chairperson, Department of Medical Microbiology and Immunology, 5072 Grivas Hall, 513 AEC, The Ohio State University Medical Center, Columbus, OH 43210. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR, BIOINORGANIC CHEMISTRY. University of California, Santa Cruz (UCSC). The Department of Chemistry and Biochemistry invites applications for a junior faculty position beginning fall 1993. Candidates are expected to have Ph.D. in chemistry or related field and demonstrated record of excellence and potential for independent research in bioinorganic chemistry, and a commitment to and and a talent for teaching at both the undergraduate and graduate level. Curriculum vitae, brief summary of research interests and three confidential letters of recommendation are required. Salary range is $35,900 to $38,800 (9-month basis). Applications are encouraged to apply. Applications should be submitted to: Professor Pradip Mascharak, Chair, Biochemistry/Affirmative Action/Equal Opportunity.

ASSOCIATE PROFESSOR, CELL BIOLOGIST. Applicants are encouraged to apply for a tenure-track faculty position. The faculty member will be expected to establish an independent research program in the study of cellular and molecular biology and to contribute to the teaching of histology, gross anatomy, and histophysiology. Research interests in the department include developmental neurobiology, craniofacial development, and sensory motor interactions in the nervous system. Applicants will be expected to submit curriculum vitae, reprints of publications, a statement of future research plans, and three letters of recommendation. Applications should be sent to: Dr. K. E. Eber, Chairman, Department of Biochemistry, School of Medicine, University of Kansas Medical Center, 39th and Rainbow, Kansas City, KS 66103. Review of applications will begin on 15 January 1992 and continue until the position is filled. The University of Kansas is an Affirmative/Equity Opportunity Employer.

GENETICS

The Department of Biological Sciences anticipates seeking applications for a tenure-track position at the ASSISTANT PROFESSOR level open in the area of genetics. Applicants using yeast or another microbial genetic system as a model to approach basic cellular or molecular problems are especially encouraged to apply. The successful candidate will be expected to establish an extramurally funded research program, train graduate students, and participate in undergraduate education. Applications should send curriculum vitae, a summary of research interests and goals, and arrange to have at least three letters of reference sent. Applications are invited for full consideration and must be received by 1 December 1991.

GENETICS Search Committee
Department of Biological Sciences
University of Pittsburgh
Pittsburgh, PA 15260

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

FACULTY POSITION
MOLECULAR VIROLOGIST

The Department of Medical Microbiology and Immunology, The Ohio State University Medical Center, is seeking applications for a tenure-track position at the level of ASSOCIATE PROFESSOR in the area of molecular virology. Preference will be given to candidates whose research involves molecular studies on viral infection and replication. Applicants must have a Ph.D. or equivalent level of training. Salary is commensurate with experience. Applications should be submitted, including curriculum vitae, list of publications, a brief statement of research interests (three pages or less) and, in addition, have three letters of recommendation. Applications should be submitted to: Dr. Ronald Glaser, Chairperson, Department of Medical Microbiology and Immunology, 5072 Grivas Hall, 513 AEC, The Ohio State University Medical Center, Columbus, OH 43210. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

DEPARTMENT OF PHYSIOLOGY
AND BIOPHYSICS
UNIVERSITY OF ILLINOIS
URBANA-CHAMPAIGN

ASSISTANT PROFESSOR
PROTEIN CRYSTALLOGRAPHY

Applications are invited for a tenure-track position in Molecular Biochemistry/Crystallography, at the assistant professor level starting August 1992. Applicants are required to have a doctoral degree, postdoctoral research, and evidence of successful research. The successful candidate is expected to develop a vigorous independent research program and participate in our undergraduate and graduate teaching programs. He/she will join a group of biochemists as part of a continuing commitment to establish an outstanding program in structural biology. Salary for this 9-month appointment will be commensurate with experience and qualifications. Summarily, are to be submitted with teaching vita, a list of publications, a short statement of future research plans, and the names of at least three references to: Dr. Andrew H.-J. Wang, Chairman, Search Committee, Department of Physiology and Biophysics, 156 Davenport Hall, 607 South Mathews, Urbana, IL 61801; telephone: 217-244-6537.

The University of Illinois at Urbana-Champaign is a responsive Equal Opportunity/Affirmative Action Employer.

The Department of Chemistry, Yale University, invites applications for positions at the ASSISTANT PROFESSOR level, effective academic year 1992. We seek applications for positions in the area of macromolecular structure and function. The successful candidate is expected to develop a vigorous independent research program and to interact with nuclear magnetic resonance, electrochemistry, and molecular biology. Applications should be sent to: Chair, Search Committee, Faculty Office, Department of Chemistry, Yale University, New Haven, CT 06520. Applications are invited for full consideration and must be received by 1 December 1991, but no final decision will be made before this date.

The University of Illinois at Urbana-Champaign is an Equal Opportunity/Affirmative Action Employer. Women are especially encouraged to apply.

MICROBIAL GENETICIST

The Department of Biological Sciences at Mississippi State University is seeking applications for a tenure-track position at the ASSISTANT PROFESSOR level, starting August 1992. The successful applicant will be expected to develop a vigorous independent research program, to direct graduate students, and to teach undergraduate and graduate level courses in microbial genetics. The department is committed to developing outstanding research programs in inorganic and organic chemistry. Applicants should send curriculum vitae, a statement of research interests and plans, and should arrange for the submission of three letters of recommendation. All materials should be received by 6 December 1991. Send applications to: Chair, Search Committee, P.O. Box 6666, New Haven, CT 06511-8118. Yale University is an Equal Opportunity/Affirmative Action Employer.

Goucher College invites applications for a tenure-track position beginning September 1992 in the area of biochemistry with molecular biology expertise. Appointment to be made, preferably at the assistant professor level, in the Department of Biological Chemistry (ACS-certified). Primary responsibilities will include curriculum development and teaching in biochemistry and molecular biology at the undergraduate level. Experience teaching at the college level is emphasized. Active research program involving undergraduate participation expected. Ph.D. required, postdoctoral and teaching experience preferred. Women and minorities are especially encouraged to apply. Please send letter of interest and current resume, state- ment of teaching and research interests, and three letters of recommendation by 6 December 1991 to: Dr. George Delahunty, Department of Biology, Goucher College, Baltimore, MD 21204.

An Equal Opportunity Employer.

SCIENCE, VOL. 254
KUWAIT UNIVERSITY
College of Science
Department of Zoology

Applications are invited for the positions of Professor and Associate Professor in the Department of Zoology of Kuwait University with specialties in the fields of:

Animal Behavior
Desert Ecology
Marine Biology
Arid Zone Ecology
Biology of Chordates

The successful applicants will be expected to teach undergraduate and post graduate courses, supervise graduate students and undertake a strong research program in their field of specialization. Preference will be given to those applicants who are currently enjoying university appointments. Applications will be considered for appointment commencing February 1, 1992 or September 1, 1992.

For application forms and conditions of service please write to:

Kuwait University Office
Embassy of the State of Kuwait
3500 International Drive, N.W.
Washington, DC 20008

Completed application forms must be mailed directly to:

Chairman
Department of Zoology
College of Science
Kuwait University
P.O. Box 5969
Safat 13060
KUWAIT

National Institutes of Health
NATIONAL INSTITUTE OF DENTAL RESEARCH
EXTRAMURAL PROGRAM

The Extramural Program, the organizational unit of the National Institute of Dental Research (NIDR) responsible for promoting and managing all dental research training and manpower development awards and research contracts for the NIDR, invites applications for three Health Scientist Administrator positions.

1) Assistant Director for Program Development
   GM-0601-15
   Salary Range $61,643 pa - $80,138 pa
   (Supervisory Position)

2) Director, Periodontal Diseases Program
   GS-0601-12, 13, or 14
   Salary Range $37,924 pa - $68,129 pa

3) Director, Craniofacial Development and Disorders
   GS-0601-12, 13, or 14
   Salary Range $37,924 pa - $68,129 pa

Activities include planning and implementing research initiatives through grants, contracts and/or cooperative agreements and providing administrative and scientific oversight of proposals and awards.

Applicants must have a Ph.D. degree (or possess equivalent combination of experience and training) in a science related to health, dentistry and/or medicine; accomplishments in a research area of interest to the Program, and demonstrated ability in health science administration.

Appointment to these positions will be in the Civil Service at the grade levels indicated above. Alternatively, appointment in the Commissioned Corps of the U.S. Public Health Service may be appropriate. U.S. citizenship is required. Salary is commensurate with qualifications and experience.

Applicants must submit a SF-171, (available in any Federal Personnel Office), curriculum vitae and bibliography. Applicants must have or obtain a Civil Service Notice of Rating as a Health Scientist Administrator prior to appointment.

Application and documents must be submitted by November 30, 1991 to:

Ms. Faye M. Harbrant
Personnel Management Specialist
National Institute of Dental Research
National Institutes of Health
9000 Rockville Pike
Building 31, Room 2C223
Bethesda, MD 20892
(301) 496-6971

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TECHNICAL MANAGER

Kemin Industries (Asia) Pte Ltd, located in Singapore is part of the Kemin Group of Companies and is committed to Research & Development, Production and Marketing of Products to the Animal Feed Industry. The Kemin Group is involved in the production of Antioxidants, Fungal and Bacterial Inhibitors, Carotenoid Pigments, Flavours and Enzyme Products. An individual is sought to Ph.D. level with a strong background in Biochemistry, previous experience in chemical analysis, microbiology and/or enzymology is preferred. The Technical Manager should have excellent management, communication and technical presentation skills. The Technical Manager will be required to initiate Research and Development programs, provide technical support and services for our sales and marketing program. A certain amount of international travel will be required. This appointment provides the opportunity to work in a multi-disciplinary environment with the challenge of working on a variety of different topics. Competitive salary with benefits package including relocation allowance will be offered.

Contact: Managing Director
Kemin Industries (Asia) Pte Ltd
22 Pandon Road
Singapore 2280
Fax No: 65-2650209

POSITIONS OPEN

MOLECULAR BIOLGISTS

MONTREAL NEUROLOGICAL INSTITUTE

DEPARTMENT OF NEUROLOGY AND NEUROSURGERY

MCGILL UNIVERSITY

Applicants are invited for two tenure-track positions at the Assistant Professor level in the Department of Neurology and Neurosurgery, McGill University, at the Montreal Neurological Institute. The successful candidates will have a Ph.D., M.D., or equivalent degree, and at least two years of relevant, postdoctoral experience and will be expected to develop independent research programs based on extramural funding and to participate in graduate training. The new appointees will join a group of seven independent investigators studying various aspects of neuromuscular function, development and disease. They are particularly interested in candidates using primarily molecular techniques applied to the biology and pathophysiology of muscle and/or motor neurons. Laboratory start-up assistance is available. The expected starting date would be January 1, 2022. Please address applications, including curriculum vitae, an outline of research plans and three letters of recommendation to: Dr. George Koopman, McGill Neurological Institute, 3801 University Street, Montreal, Quebec, H3A 2B4 Canada. Fax: 514-398-8310.

FACULTY POSITIONS

DEPARTMENT OF PHARMACOLOGY

The Department of Pharmacology at Stanford University School of Medicine invites applications for several tenure-track positions at the ASSISTANT PROFESSOR level. Candidates must have a Ph.D. or M.D. degree and postdoctoral research experience. Candidates should be interested in developing independent research programs in the areas of molecular, cellular and biophysical approaches to analyze cancer biology and signal transduction. Applications are particularly encouraged from candidates with postdoctoral experience in signal transduction, gene regulation, cell growth and differentiation. Candidates will also participate in teaching medical pharmacology and in graduate (Ph.D.) training in a stimulating medical environment.

Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates. Candidates should include with their application a description of their past research activities and a description of their future research plans, and at least three letters of reference to: James P. Whitlock, Jr., M.D., Department of Pharmacology, Stanford University School of Medicine, Stanford, CA 94305-5332.

FACULTY POSITION

DEPARTMENT OF MOLECULAR BIOLOGY

UNIVERSITY OF WYOMING

Applications are invited for a tenure-track faculty position in the department of molecular biology at the level of ASSISTANT PROFESSOR. We seek an individual with a strong experimental background in molecular biology whose research interests include the study of molecular aspects of microbial pathogenesis or virology. A number of other areas of research interests, however, could complement existing programs and assist in the department's continuing development. The successful candidate will be expected to develop or transfer an active research program, be committed to excellence in teaching at the undergraduate and graduate levels, and to interact with other faculty in a vigorous research environment. Only applicants with a strong research record and the ability to develop and obtain extramural funding will be considered. The position offers an attractive salary, an excellent package of benefits, and an opportunity to participate in an active and growing research environment and to interact with researchers from a variety of disciplines. Screening of candidates will begin 1 January 2022. Applications should be submitted to: Dr. Nancy C. شاملی, Chair, Department of Molecular Biology, University of Wyoming, Laramie, WY 82071-3844. The University of Wyoming is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

INTEGRATIVE NEUROSCIENTIST. The Department of Biology at the University of Illinois at Urbana-Champaign with the Neuroscience Program invites applications for a tenure-Track ASSISTANT PROFESSOR position beginning 21 August 1992. Exceptional candidates at higher levels may be considered. Preference will be given to candidates whose research is in one or more of the following: mechanisms of sensorimotor coordination and perception; modeling of neural systems with relationships to behavior; cognitive neuroscience. Salary negotiable. Send curriculum vitae, reprints, a statement of research interests and three letters of recommendation by 20 January 1992 to: Janice Jarrett, Department of Psychology, University of Illinois, 603 East Daniel, Champaign, IL 61820; telephone: 217-333-8546. Affirmative Action/Equal Opportunity Employer; women and minorities are encouraged to apply.

NEUROBIOLOGY FACULTY POSITION. The Neurobiology Program invites applications for the position of ASSISTANT PROFESSOR from individuals with research interests in molecular, computational, or biophysical approaches to neuroscience. Applicants should have a Ph.D. and at least one year of postdoctoral experience. They will be expected to develop an independent, fundable research program, and contribute to the teaching efforts of the program.工资 particularly interested in candidates using primarily molecular techniques applied to the biology and pathophysiology of muscle and/or motor neurons. Laboratory start-up assistance is available. The expected starting date would be January 1, 2022. Please address applications, including curriculum vitae, an outline of research plans and three letters of recommendation to: Dr. George Koopman, McGill Neurological Institute, 3801 University Street, Montreal, Quebec, H3A 2B4 Canada. Fax: 514-398-8310.

FACULTY POSITION

DEPARTMENT OF MOLECULAR BIOLOGY

UNIVERSITY OF WYOMING

Applications are invited for a tenure-track faculty position in the department of molecular biology at the level of ASSISTANT PROFESSOR. We seek an individual with a strong experimental background in molecular biology whose research interests include the study of molecular aspects of microbial pathogenesis or virology. A number of other areas of research interests, however, could complement existing programs and assist in the department's continuing development. The successful candidate will be expected to develop or transfer an active research program, be committed to excellence in teaching at the undergraduate and graduate levels, and to interact with other faculty in a vigorous research environment. Only applicants with a strong research record and the ability to develop and obtain extramural funding will be considered. The position offers an attractive salary, an excellent package of benefits, and an opportunity to participate in an active and growing research environment and to interact with researchers from a variety of disciplines. Screening of candidates will begin 1 January 2022. Applications should be submitted to: Dr. Nancy C. شاملی, Chair, Department of Molecular Biology, University of Wyoming, Laramie, WY 82071-3844. The University of Wyoming is an Affirmative Action/Equal Opportunity Employer.

CAIFORNIA

ORAL DIAGNOSTIC SCIENCES/RESEARCH

Full-time, tenure-track ASSISTANT PROFESSOR position available in the Section of Diagnostic Sciences at the University of California, Los Angeles (UCLA) School of Dentistry. Candidates should have a D.D.S., M.D.D. or M.D. degree issued from a United States or Canadian university and advanced degree in research is required, with a Ph.D. or equivalent degree desirable. Specialty Board eligibility or California license to practice is required. The University of California is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. Send application and curriculum vitae to: Dr. L. R. Eversole, Chairman, Search Committee, Section of Diagnostic Sciences, UCLA School of Dentistry, 10833 Le Conte Avenue, Room E-108 CHS, Los Angeles, CA 90024-1668. Position available 1 July 1992.

Columbia University, Department of Psychology, anticipates making faculty appointments at the ASSISTANT PROFESSOR level in one or more of the following areas of specialization: developmental psychology, behavioral or cognitive neuroscience, social psychology, human cognition. For all positions, we seek recent Ph.D. or equivalent degree with demonstrated promise of excellence both as scholar-scientists and as teachers at the undergraduate and graduate levels. Applicants should submit their curriculum vitae and copies of recent publications, and have three letters of recommendation sent to: Personal Search Committee, Department of Psychology, Schermerhorn Hall—Box 29, Columbia University, New York, NY 10027. The position for which application is being made should be indicated clearly. Applications from members of minorities and from women are encouraged. Columbia University is an Affirmative Action/Equal Opportunity Employer.
POSITIONS OPEN

ION CHANNEL PHYSIOLOGIST PHARMACOLOGIST

The University of Arizona Department of Physiology and Pharmacology invites applications for a tenure-track ASSISTANT PROFESSOR position with a research specialty in CNS Ion Channel Biology. The position is funded by the ARL Division of Neurobiology with its tenure line in pharmacology. Applicants are expected to build a vigorous, creative research program and participate in neuroscience teaching of medical and graduate students. The successful candidate’s research interests should focus on mechanisms of ion channels to elucidate vertebrate CNS functions. Preference will be given to candidates with expertise in single channel measurements combined with second messenger regulation, kinetic analysis, structure-function relationships or molecular biology approaches.

Candidates should have substantial postdoctoral experience and must document a strong potential for developing an independent research program. Curriculum vitae, a research objectives statement and three letters of evaluation should be sent to: Rafael Gruener, CNS Ion Channel Search Committee, Department of Physiology, University of Arizona College of Medicine, Tucson, AZ 85724. Completed applications must be submitted by 30 November 1991; however, applications will be accepted until the position is filled.

The University of Arizona is an Equal Opportunity/Affirmative Action Employer; applications from women and minority groups are especially encouraged.

PLANT PHYSIOLOGY
THE OHIO STATE UNIVERSITY

This is a 9-month, tenure-track position at the ASSISTANT PROFESSOR level. Postdoctoral experience is expected. The successful candidate shall develop a modern, externally funded research program, direct graduate students, and teach at the advanced and introductory levels. Send curriculum vitae, reprints, statements of research interests and teaching philosophy, and names, addresses, telephone and/or FAX numbers of three references by 6 January 1992 to: Dr. Roger P. Hangarter, Search Committee, Department of Plant Biology, The Ohio State University, 1735 Neil Avenue, Columbus, OH 43210. The Ohio State University is an Equal Opportunity/Affirmative Action Employer; applications from women and minorities are especially encouraged.

Williamette University is seeking a VERTEBRATE ZOOLOGIST with ecological background for a tenure-track position as ASSISTANT PROFESSOR beginning August 1993. Teaching responsibilities include: ecology, vertebrate morphology, field zoology. Successful candidates must have a Ph.D., teaching experience, and an ongoing research program. Submit a letter of introduction, curriculum vitae, transcripts of college work, and names of three references to: Dr. Grant Thaxter, Williamette University, Salem, OR 97301.

Telephone: 503-370-6482. Screening will begin 16 December 1991 and continue until the position is filled.

Williamette is an Equal Opportunity Employer and encourages diversity in its faculty.

FACULTY POSITIONS
TEXAS A&M UNIVERSITY

The Center for Advanced Invertebrate Molecular Sciences and the Department of Biology and Entomology are jointly searching for a new faculty position in the ASSISTANT OR ASSOCIATE PROFESSOR level (tenure track) with training in the following areas: biochemistry; molecular, cellular and developmental biology. Preference will be given to candidates with graduate and postgraduate experience in Drosophila molecular biology. The successful candidate must have demonstrated potential to develop a vigorous, externally funded research program and participate in graduate and undergraduate instruction. Applications will be accepted until 1 December 1991 or until position is filled and should include curriculum vitae, description of goals and interest, and three letters of reference mailed or sent by FAX to:

Dr. Linda A. Guarnizo, Chair of Search Committee
Center for Advanced Invertebrate Molecular Sciences
Texas A&M University
Department of Entomology
College Station, TX 77843-2475
Telephone: 409-845-7756
FAX: 409-845-8934

Texas A&M University is an Equal Opportunity Employer.

1 NOVEMBER 1991

Director, Drinking Water Research Division.

U.S. EPA has an opening for the above in the Risk Reduction Engineering Laboratory, Cincinnati, Ohio.

The Drinking Water Research Division implements a program of national and international scope and importance in technology research to develop new and improved methods for the identification, treatment and control of contaminants in drinking water. This involves not only the removal of contaminants via treatment, but control of the complex chemical and microbiological changes that take place in the distribution system and thereby contribute to human exposure from undesirable contaminants in potable water. To perform these functions, the Division utilizes approximately 57 full-time federal employees, a budget of $5 million per year, and support contract staff in the areas of environmental/sanitary engineering, chemistry, biology, microbiology, statistics, computer science, systems and cost analysis and related specialties. An in-depth knowledge of drinking water treatment, regulations and engineering/modeling/cost development is critical. The Division's objectives are achieved through in-house, grant, contract, interagency, and other cooperative agreement mechanisms, and may be pursued by bench, pilot plant or field-scale projects.

The successful applicant must have the ability to: 1. develop and execute work plans while fostering effective human resources management, 2. recruit, select, appraise and develop employees, and to reward/improve employee performance, incorporate affirmative action principles into managerial responsibilities, 3. identify, evaluate and implement means of improving work processes and/or methods of operation. Minimum qualifications include a bachelor's or higher degree (advanced degree desirable) in Environmental or Chemical Engineering and several years of professional experience directly related to the position being filled. Candidates also must demonstrate their potential to develop the qualities of successful supervision. At the work location there is a "wellness center and a child care center." This is a career civil service position within a salary range of $61,643 to $80,136.

Candidate must meet U.S. Office of Personnel Management qualification requirements and must be a U.S. citizen. Call (513) 589-7840 or (513) 589-7816 or send an Application for Federal Employment (SF-171) or resume to:

U.S. Environmental Protection Agency
[CAD-06]
Human Resources Management Division
Cincinnati, OH 45268
AN EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER

CHAIR
BEHAVIORAL NEUROSCIENCE PROGRAM

The State University of New York is seeking a Chair for a newly-developed Behavioral Neuroscience Program. The program will be interdisciplinary, involving faculty from both the School of Medicine and College of Arts & Sciences. A number of tenure-track faculty lines in addition to the Director’s will be devoted to the further development of this Program, and this is to be built on top of the significant existing strengths that already exist in various Departments (e.g. Psychiatry, Psychology and Neurobiology & Behavior).

The Chair’s position will be a senior, tenured faculty appointment. Departmental affiliation is negotiable. We are looking for a well-recognized scientist with an outstanding track record of research involving the study of the nervous system and its relationship to behavior. We expect the Chair to maintain a vigorous, productive, and independently funded research program. Ample space and start-up funds will be provided. The position also requires recruiting, administrative, and leadership skills to promote further development of the Behavioral Neuroscience Program.

Applicants should submit a curriculum vitae, with the names and addresses of at least 3 references, to: Murray S. Sherman, Chair, Behavioral Neuroscience Search Committee, Department Neurobiology and Behavior, University at Stony Brook, Stony Brook, NY 11794-5230. The closing date for applications is 22 November 1991.

SUNY at Stony Brook is an affirmative action/equal opportunity educator and employer.
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THE UNIVERSITY OF MANITOBA
DEPARTMENT OF MEDICAL MICROBIOLOGY

The Department of Medical Microbiology, University of Manitoba, is continuing to increase its research base in molecular biology and invites applications for a tenure-track position at the rank of ASSISTANT OR ASSOCIATE PROFESSOR, to begin after April 1992. Applicants should have a Ph.D. and/or M.D. degree, should have research experience and a strong publication record in the area of molecular biology of pathogenic microorganisms of humans. Excellence in other areas of research such as biochemical or cellular aspects of microbial pathogenicity will also be considered. The successful candidate will be expected to establish an independent research program and participate in undergraduate and graduate medical teaching programs. Salary will be commensurate with experience and qualifications.

The University of Manitoba encourages applications from qualified women, men, or members of visible minorities, aboriginal people, and persons with disabilities. The university offers a smoke-free work environment, save for specially designated smoking areas. Applicants for this position will be considered consistent with Canadian citizens and permanent residents.

Send curriculum vitae, a summary of research interests, and names and addresses of three references to: Dr. Robert J. Dworetzky, Chairman, Department of Medical Microbiology, University of Manitoba, 545-730 William Avenue, Winnipeg, Manitoba, R3E 0W3. Applications will be received until 31 January 1992.

The Department of Pathology and Laboratory Medicine, Medical University of South Carolina, invites applications for a tenure-track appointment at the ASSISTANT PROFESSOR level in the general field of the molecular biology of pediatric solid tumors. The successful applicant will serve as liaison between clinical laboratories establishing diagnostic protocols and basic research. The candidate should have a Ph.D. and/or M.D. degree, postdoctoral experience, and a strong commitment to excellence in research, teaching, and service.

The position is available 1 July 1992. Candidates should send their curriculum vitae, statement of research interests, and names of three references to: Dr. A. Julian Carsin, Chairman, Department of Pathology and Laboratory Medicine, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425.

University of Alaska Anchorage (UAA), Biomedical Program (WAMI) in the School of Nursing and Health Sciences is now accepting applications for ASSISTANT ASSOCIATE PROFESSOR of biological sciences. Full-time, permanent with benefits, tenure-track, 9 months per year. Salary: depends on experience. This position is funded through the UAA Biomedical Program which is part of the medical education agreement between the University of Washington School of Medicine and the state of Washington, Alaska, Montana and Idaho (WAMI). The successful candidate must have a Ph.D. or equivalent degree, postdoctoral research activity, experience, and a commitment to excellence in teaching. The position is available in the Department of Biology. Candidates must have a Ph.D. or equivalent degree, postdoctoral research activity, and a commitment to excellence in teaching. The position is available in the Department of Biology.

Tenure-track position at the rank of ASSISTANT OR ASSOCIATE PROFESSOR in the Department of Cellular and Molecular Physiology, Yale University School of Medicine. Candidates must hold an M.D., Ph.D. or equivalent degree and have experience and interest in physiology at the cellular and/or molecular levels. We are especially interested in candidates with experience in the areas of membrane biology, neuroscience, and signal transduction processes. Salary is available for both collaborative and independent research as well as for graduate and medical student teaching.

Qualified women and minority group members are encouraged to apply.

Send curriculum vitae, a letter of recommendation, and three letters of reference to: Dr. Walter F. Boron, Chairman, Department of Molecular and Cellular Physiology, 333 Cedar Street, P.O. Box 3333 New Haven, CT 06510.

Yale University is an Affirmative Action/Employer.

FACULTY POSITIONS IN PHARMACOLOGY

Applications are invited for two tenure-track faculty positions at the level of ASSISTANT OR ASSOCIATE PROFESSOR to be filled over the next 1 to 2 years. The position requires a Ph.D. degree, preferably in pharmacology. The successful candidate will be expected to establish an independent research program and participate in undergraduate and graduate medical teaching programs. Salary will be commensurate with experience and qualifications.

Send curriculum vitae, a summary of research interests, and names and addresses of three references to: Dr. Donald F. Page, Dean, School of Pharmacy, University of Wisconsin, Madison, WI 53706-1717. Applications will be received until 31 January 1992.

The University of Washington, Department of Molecular and Cellular Biology invites applications for two tenure-track positions in cellular and molecular biology starting in the 1992-93 academic year. The successful candidate will be expected to establish an independent research program and participate in undergraduate and graduate medical teaching programs. Salary will be commensurate with experience and qualifications.

Send curriculum vitae, a summary of research interests, and names and addresses of three references to: Dr. D. Patrick Schubert, Chairman, Department of Molecular and Cellular Biology, University of Washington, Box 357250, Seattle, WA 98195-7250. Applications will be reviewed until 15 December 1991.

Richard A. Ohvall, Dean
College of Pharmacy
Oregon State University (OSU)
Corvallis, OR 97331-3507

OSU is an Affirmative Action/Equal Employment Opportunity Employer and is responsive to dual-career needs.

NEUROBIOLOGIST

(SENIOR FACULTY POSITION)

Applications are invited for a position in neurobiology at the ASSOCIATE OR FULL PROFESSOR level. Successful candidates are expected to have a demonstrated commitment to teaching and research and show evidence of stable extramural funding. Applications are particularly encouraged from individuals whose research complements the strengths in cellular neurophysiology, development, neurotransmitter, and the neural basis of behavior.

Applications will be considered up to 31 December 1992. Applications will be reviewed on a continuing basis and positions will be available starting January 1993. Send curriculum vitae, research statement, and three letters of reference to: T. H. Marrs, Department of Pharmacology, Division of Biology, College of Sciences, University of Kentucky, Lexington, KY 40506-0225.

An Equal Opportunity/Affirmative Action Employer.

NEUROBIOLOGY

SCIENCE welcomes placement of line classified ads by FAX. Please include name and telephone number for our confirmation call when transmitting ad to:

FAX NUMBER: 202-682-0816

CHEMIST/CHEmICAL ENGINEER, ASSISTANT/ASSOCIATE PROFESSOR, Tenure-track position beginning fall 1992. Teach courses in introductory and advanced industrial chemistry, including polymers and surface courses in polymer chemistry, physical chemistry, or analytical chemistry. Send resume, statement of teaching experience and research interests, and names and addresses of three references to: Dr. H. H. Sprague, Chairman, Department of Chemistry, Texas Christian University, Fort Worth, TX 76150.

THE UNIVERSITY OF TEXAS AT DALLAS

Affirmative Action/Equal Opportunity Employer.

Two ASSISTANT OR ASSOCIATE PROFESSORS are being sought in the Department of Pharmacology at The University of Texas Southwestern Medical School at Dallas. Dallas is a large, cosmopolitan city with a highly diverse population. Position requirements include a Ph.D. or equivalent degree in pharmacology or a related discipline. Responsibilities of the successful candidate will be to establish an independent research program and to interact with other pharmacology and basic science faculty members on both graduate and undergraduate levels. Send letter of application and curriculum vitae to: Dr. William P. Parrish, Chair, Department of Pharmacology, The University of Texas Southwestern Medical School at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75390-9030.

The University of Texas Southwestern Medical School at Dallas is an Equal Opportunity Employer.

RETROVirologist

The University of Texas Southwestern Medical School at Dallas is seeking candidates for a faculty position in the Department of Microbiology and Immunology. The successful candidate will be expected to establish an independent research program and teach microbiology and virology at both the graduate and medical student levels. Send curriculum vitae, a summary of research interests, and names and addresses of three references to: Dr. Don L. Kipnes, Director, Microbiology and Immunology, The University of Texas Southwestern Medical School at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75390. The University of Texas Southwestern Medical School is an Equal Opportunity Employer.

The Department of Medicine at The University of Texas Southwestern Medical School at Dallas is seeking an individual with a Ph.D. or equivalent degree and a strong background in clinical or basic science research in the area of protein chemistry. The position requires teaching and research duties at both the graduate and medical student levels. Send curriculum vitae, a summary of research interests, and names and addresses of three references to: Dr. K. D. Habener, Chair, Department of Medicine, The University of Texas Southwestern Medical School at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75390. The University of Texas Southwestern Medical School is an Equal Opportunity Employer.

ASSISTANT PROFESSOR to perform research involving recombinant DNA expression and function; specialization in molecular biology, cloning, sequencing, and sequence-specific binding proteins; plant expression; and expression in yeast. Send curriculum vitae, statement of research interests and plans, names and addresses of three references to: Dr. W. H. Young, Chairman, Department of Molecular Biology, Texas A&M University, College Station, TX 77843-3025.

Assistant Professor in Pharmacology, interested in drug design, should have received a Ph.D. degree within the last 5 years. Send curriculum vitae, research interests and goals, and names and addresses of three references to: Dr. J. R. Fitzpatrick, Chairman, Department of Pharmacology, College of Medicine, University of Kentucky, Lexington, KY 40506-0225.

An Equal Opportunity/Affirmative Action Employer.

The above employment opportunity is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

TEXAS WESLEYAN UNIVERSITY
MOLECULAR EVOLUTION/ECOLOGY

Tenure-track faculty position (ASSISTANT PROFESSOR) beginning August 1, 1992. Position is 9 months, with a commitment to undergraduate education, experience in applying molecular techniques to problems in evolution or ecology preferred. Teaching responsibilities include undergraduate and graduate courses in evolution, ecology, and molecular biology. Send vitae, statement of teaching/research interests by 1 December 1991 to: Dr. N. C. Korten, Dean, Science/Humanities, Texas Wesleyan University, Fort Worth, TX 76105.

Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

YALE UNIVERSITY
SENIOR GUEST PROFESSOR

DEPARTMENT OF CELLULAR AND MOLECULAR PHYSIOLOGY

TWO JUNIOR FACULTY POSITIONS

Applicants are solicited for two tenure-track positions at the rank of ASSISTANT OR ASSOCIATE PROFESSOR in the Department of Cellular and Molecular Physiology, Yale University School of Medicine. Candidates must hold an M.D., Ph.D. or equivalent degree and have experience and interest in physiology at the cellular and/or molecular levels. We are especially interested in candidates with experience in the areas of membrane biology, neuroscience, and signal transduction processes. Salary is available for both collaborative and independent research as well as for graduate and medical student teaching.

Qualified women and minority group members are encouraged to apply.

Send curriculum vitae, a letter of recommendation, and three letters of reference to be sent by 15 December 1991 to:

Dr. Walter F. Boron, Chairman
Department of Molecular and Cellular Physiology, 333 Cedar Street, P.O. Box 3333
New Haven, CT 06510

Yale University is an Affirmative Action/Employer.
WORLD AIDS FOUNDATION

The World AIDS Foundation (WAF) announces its intent to support research and education relating to AIDS in the developing world. The goal of the WAF is to facilitate information exchange and to assist developing countries to respond to the AIDS pandemic.

The Foundation is particularly interested in projects that are catalytic, and once in place could have a multiplicative effect. The WAF is specifically interested in supporting:

A) short-term, in-country training for clinicians, allied health professionals and technicians;

B) fellowships to support training for national experts;

C) development and testing of new concepts and demonstrations for preventing the spread of HIV; and

D) highly focused workshops which enhance the scientific process and transfer knowledge needed in the effort against HIV infections and AIDS.

The limit of any single funding request to the Foundation is $200,000.

Application Procedures

Concept letters and applications may be prepared in either English or French. Applicants should submit concept letters for initial consideration. Following review of concept letters, applicants may be invited to submit complete proposals. The annual deadline for receipt of concept letters is February 1, 1992.

Concept letters, full applications and inquiries concerning the programs of the World AIDS Foundation should be directed to either:

World AIDS Foundation
Assistant Secretary for Health
c/o Director, Fogarty International Center
National Institutes of Health
Building 31, Room B2C02
9000 Rockville Pike
Bethesda, Maryland 20892
U.S.A.

OR

World AIDS Foundation
c/o Director
Institut Pasteur
28 rue du Docteur Roux
75724 Paris, Cedex 15
FRANCE

1992
Summer Courses

BIOLOGY OF PARASITISM: Modern Approaches (June 14-August 15) This course, for students, postdocs, and faculty focuses on the molecular basis of parasite function and the host-parasite interaction, with special emphasis on the most recent and exciting developments in this area. The course has four sections: cell biology, immunology, molecular biology, and biochemistry. Each section includes daily lectures from course faculty and outside speakers, and intensive laboratory experimentation. Limited to 20 students. Directors: John C. Bodmer, Stanford University.

EMBRYOLOGY: Cell Differentiation and Gene Expression in Early Development (June 20-July 31) An advanced level course intended for graduate students, postdoctoral fellows, and other research scientists who wish to focus on the developmental biology of the embryo, and the diverse intellectual approaches new useful in this field. Limited to 24 students. Directors: Eric H. Davidson, California Institute of Technology; Michael Levine, University of California, San Diego; and David R. McClay, Duke University.

MARINE ECOLOGY: Concepts, Techniques, and Applications of Molecular Probes (June 14-July 25) An intensive course for graduate students, postdoctoral fellows, and established investigators who wish to learn the techniques of molecular biology and their application to physiological and ecological investigations. Lectures and discussions will accompany the laboratories and will focus on the technologies being learned and applications to specific problems in marine ecology. Limited to 24 students. Director: Kenneth H. Nealson, University of Wisconsin.

MICROBIAL DIVERSITY (June 14-July 30) An intensive course intended for graduate or postdoctoral students as well as established investigators who desire to become competent in microbial techniques for isolating and working with a broad range of microbes. Limited to 20 students. Directors: Martin Dworkin, University of Minnesota and John Brennaker, Michigan State University.

NEURAL SYSTEMS AND BEHAVIOR (June 14-August 7) Intended for graduate and postdoctoral students as well as established investigators. The central theme of this course is the neural bases and ontogeny of behaviors. Twenty students participate in intensive laboratories/lectures which focus on state-of-the-art neurobiological techniques with behavioral and developmental analyses. Directors: Ronald Calabrese, Emory University and Martha Constantine-Paton, Yale University.

NEUROBIOLOGY (June 14-August 15) For 12 pre- and postdoctoral fellows who intend to work in cellular and molecular neurobiology. Postdoctoral and students at an advanced stage of their training are particularly encouraged to apply. Themes will be the functions of neural cells, the molecules involved in these functions, and the organization of molecular components required to generate cellular activity. Directors: Leonard K. Kaczmarek, Yale University and Irwin Levitan, Brandeis University.

PHYSIOLOGY: Cellular and Molecular Biology (June 13-July 25) For a class of 26 graduate students, postdoctoral fellows, and established investigators who desire to learn the methods and research strategies used to study physiology at the cellular and molecular levels. Recent college graduates on their way to graduate school or physicians reentering laboratory research are also encouraged to apply. Interested students may apply for two weeks of postcourse research starting July 27. Director: Thomas D. Pollard, Johns Hopkins University.

APPLICATION DEADLINE: March 2, 1992
Partial financial aid is available to qualified applicants.

Contact: Florence Dwane, Admissions Coordinator, Office of Sponsored Programs, MARINE BIOLOGICAL LABORATORY, Woods Hole, MA 02543 (508) 548-3705, ext. 216
Graduate Program
Cell and Molecular Biology
(Multi-Departmental)

- Gene Expression and Regulation
- Developmental Biology and Genetics
- Signal Transduction and Membrane Biology
- Structural and Computational Biology
- Molecular Virology, Immunology and AIDS
- Cell Cycle, Growth Control and Cancer Biology
- Lipid Metabolism and Cardiovascular Biology
- The Human Genome and Gene Therapy

The Graduate school at Baylor College of Medicine has created a graduate program in Cell and Molecular Biology stressing basic research in the above areas. Students accepted for studies leading to the Ph.D. will receive financial support. For further information please contact Dr. Savio L.C. Woo, Director at the following address:

Graduate Program in Cell and Molecular Biology
Baylor College of Medicine
The Graduate School
One Baylor Plaza, Room S101
Houston, Texas 77030
Phone: (713) 798-6557

Faculty Position
Department of Biochemistry, Molecular Biology and Cell Biology
Northwestern University

The Department of Biochemistry, Molecular Biology and Cell Biology seeks outstanding candidates for a full-time faculty appointment (rank open). Research programs in the Department include biochemistry, biophysics, cell biology, developmental biology, genetics, immunology, microbiology, molecular biology, structural biology, and virology. Exceptionally qualified candidates in any area will be considered, but the search will focus on molecular and cellular biology. Candidates should submit a curriculum vitae, a list of publications, a statement of future research objectives and letters of reference from three persons knowledgeable of the candidates’ research and teaching abilities to:

Chairman, Faculty Search Committee
Department of Biochemistry
Molecular Biology and Cell Biology
Northwestern University
Evanston, Illinois 60208-3500

Women and members of minority groups are urged to apply. AA/EEO. Hiring is contingent upon eligibility to work in the United States.

Leicester University

School of Biological Sciences
Departments of Botany and Zoology

Chair of Environmental Biology

Applications are invited for a Chair of Environmental Biology to be held as a joint appointment in the Departments of Botany and Zoology. The appointee will be expected to direct the development of the teaching programme in environmental biology and ecology and to conduct research in an appropriate field. It is expected that the Chair holder will take a normal share of undergraduate teaching, but will initially be free of major administrative responsibilities. Candidates should be willing to interact productively with existing research groups, and the successful candidate will be expected to provide academic leadership to the Environmental Biology Group which already exists in the School. The group consists of those members of the School of Biological Sciences with teaching and/or research interests in ecology or environmental biology. It is expected also that the work in Environmental Biology will relate to other cognate disciplines throughout the University. The field of scholarship of the appointee is not restricted, but it is hoped that the Chair will bring field-based or theoretical expertise to strengthen and extend current activities.

Salary will be negotiated within the Professorial Range, current minimum £29,364 p.a.

Further particulars may be obtained from the Staffing Office (Academic Appointments), University of Leicester, University Road, Leicester LE1 7RH, UK. Tel: (0533) 522439. UK candidates should submit sixteen copies of their application. (Overseas candidates may submit one copy). The University FAX number is (0533) 522200.

Closing date for applications: 16 December 1991.

Museum Director

The University of Utah is accepting applications for a Director of the Utah Museum of Natural History. The Museum is designated as the state museum of natural history with disciplines in anthropology, biology, and geology. Successful candidate must have a Master’s degree in a related area with ten years senior level experience which includes development and planning in a natural history museum. Must possess good communications skills and a firm commitment to personal and professional integrity. Thorough knowledge of museum management and a proven record of fund raising required. An earned Doctorate and involvement in museum professional organizations at a national level preferred. Manages and directs all aspects of the Utah Museum of Natural History and reports directly to the Vice President for Academic Affairs. Competitive salary and excellent benefits package. Hire date is set for March 30, 1992. Screening of applicants will begin December 2, 1991. Position will remain open until suitable candidate is identified. Women and minorities are encouraged to apply. Send two copies of resume which includes names, addresses, and telephone numbers of three references and salary requirement to:

Search Committee Chair
c/o Patricia Baucum
University of Utah
Personnel Administration
101 Annex-ph-9922
Salt Lake City, Utah 84112

The University of Utah is an Equal Opportunity Employer.
MAKE A DISCOVERY THAT MAKES AN IMPACT.

At Becton Dickinson, people don’t just make discoveries—they make a difference. That’s because our research is changing the way health care services are delivered, from innovative rapid diagnostic tests to advanced polymers for medical devices. And our emphasis on individual achievement means your contributions to our success can have a significant effect on your own. Make an impact, at Becton Dickinson.

Our Medical Affairs Technical Services Department is adding 2 new positions to its Assay Development Group. This will allow them the additional capability to develop, validate, and perform novel biological and biochemical and human risk assessments more competitively.

SCIENTIST

Responsible for the development of biochemical and cell culture based assays to evaluate the safety of medical device and in vitro diagnostics products and their component materials and to determine the mechanisms responsible for the toxicity of such products.

This position requires a Ph.D. in toxicology or in a biological, chemical, or biochemical field with at least 5 yrs. of experience in methods development of biochemical or cell culture based assays. Must have supervisory experience, fundamental skills in experimental design & statistical analysis, and in vitro toxicology and GLP Laboratory environment experience. Computer experience, including the use of spreadsheets, word processing and databases, is highly desirable.

RESEARCH ASSOCIATE

This position will be responsible as technical support in the development of biochemical and cell culture based assays to evaluate the safety of medical device and in vitro diagnostics products and their component materials.

Requirements include a BS in a biological, chemical, pharmacological or health science field with at least 3 years of experience in mammalian cell culture and biochemical assay/experimentation. Experience in experiment design, report writing, toxicology, good laboratory practice, and computer use, including spreadsheets, word processing and databases, is desired.

At Becton Dickinson, we offer highly competitive salaries, comprehensive benefits, and the stimulation of working in North Carolina’s celebrated Research Triangle Park. For immediate consideration, please send your resume to: Human Resources, Becton Dickinson & Company Research Center, 21 Davis Drive, Research Triangle Park, NC 27709. AA/EOE Employer.

POSTDOCTORAL FELLOWSHIPS

at the University of Washington
COLLEGE OF OCEAN AND FISHERY SCIENCES

Applications are requested from new or recent doctorates in science, engineering and from individuals with equivalent degree stature in related fields for fellowships to be awarded in the College.

The College consists of four units covering all aspects of marine science and marine policy. Fellowship holders will be appointed in one of the following departments:

The School of Oceanography carries out basic research in physical oceanography, marine chemistry, marine geology and geophysics, and biological oceanography.

The School of Marine Affairs focuses multidisciplinary research on marine policy issues arising from man's use of the oceans; relevant disciplinary training may be in any of the social or natural sciences or in law.

The Applied Physics Laboratory carries out research in physical oceanography, polar science, underwater acoustics, and a wide range of engineering disciplines.

The School of Fisheries specializes in fish and shellfish systemsatics and ecology, aquaculture, quantitative fishery management, environmental toxicology and food science.

Fellowships are awarded for one year, renewable for a second year, with an approximate stipend of $30,312 and a modest research budget. Health insurance is also provided. A complete application consists of transcripts of the applicant’s graduate record, a vita, letters of recommendation from three referees, a synopsis of the doctoral dissertation, and a 1–2 page statement outlining the research the applicant proposes to undertake at UW. Direct contact with faculty in the College is encouraged. All materials must be received by 3 January 1992. Awards will be announced in Spring 1992 (mid March). Fellowships are expected to be taken up before 1 September 1992.

Applications and any questions should be addressed to:
Search Committee, COFS Postdoctoral Program, Office of the Dean, NH-15, College of Ocean and Fishery Sciences, University of Washington, Seattle, WA 98195.

Meeting Announcement

The Department of Nutrition, University of North Carolina at Chapel Hill is sponsoring a conference on:
Choline Phospholipids: Molecular Mechanisms for Human Diseases
April 3rd and 4th, 1992
Hotel del Coronado, San Diego, CA

Cardiovascular Disease and Platelet Activating Factor
Richard Gross, M.D., Ph.D.; Washington University School of Medicine
Steven M. Prescott, M.D.; University of Utah
John M. Johnston, Ph.D.; University of Texas Southwestern Medical School
Eugene P. Kennedy, Ph.D.; Harvard Medical School

Signal Transduction and Carcinogenesis
Steven Zeisel, M.D., Ph.D.; University of North Carolina at Chapel Hill
I. Bernard Weinstein, M.D.; Columbia University College of Physicians and Surgeons
Alfred H. Mellit, Jr., Ph.D.; Emory University School of Medicine
John H. Eaton, M.D., Ph.D.; Vanderbilt University
Robert M. Bell, Ph.D.; Duke University Medical Center

Strategies for Influencing Phospholipid-mediated Processes
Richard J. Wurtman, M.D.; Massachusetts Institute of Technology
Dennis E. Vance, Ph.D.; University of Alberta School of Medicine
Rosalind A. Coleman, M.D.; University of North Carolina at Chapel Hill
Claudia Kent, Ph.D.; University of Michigan
Jim K. Blaszak, Ph.D.; Boston University School of Medicine

An approved satellite meeting of the American Institute of Nutrition, a constituent society of FASEB

Attendance will be by invitation only. Meeting will be limited to 100 attendees. Some travel grants will be available.

Support for this conference has been provided by Central Soya.
Send an NIH-style curriculum vitae (or, for doctoral students, a letter from your advisor) to:
Steven H. Zeisel, M.D., Ph.D.
Department of Nutrition
University of North Carolina at Chapel Hill
CB#7400, Chapel Hill, NC 27599-7400
FAX # 919 966-7216
Positions Open

North Carolina State University
Biomatics Graduate Program

Assistant/Associate Professor of Biomatics (tenure track). Research strength expected in mathematical biology (with mathematical theory or in applications). Duties include research, teaching, and graduate student direction. Special attention will be given to candidates whose appointment would increase the diversity of the Biomatics Program. The successful candidate will be expected to establish a significant externally funded, research program, and curriculum vitae (including transcript or list of graduate courses for recent graduates), and three letters of reference should be sent by 1 February 1992 to: Faculty Search Committee, Biomatics Graduate Program, North Carolina State University, Campus Box 8203, Raleigh, NC 27695–8203. Equal Opportunity Employer/Affirmative Action.

University of Nebraska
Department of Pharmacology

Applications are invited for a tenure-track faculty position in the Department of Pharmacology, with a preference for candidates at the ASSOCIATE PROFESSOR or ASSISTANT PROFESSOR level. Individuals working at the cellular or molecular level with research interests which complement current departmental programs in neuroscience, toxicology, and cell biology are invited to apply. Outstanding candidates in all areas will be considered. Candidates should have a Ph.D. and/or M.D. degree and postdoctoral experience. Successful candidates will be expected to maintain an independent externally funded research program and to teach graduate, medical, and pharmacy students. Applications reviewed starting 15 January 1992. Applicants should submit curriculum vitae, a detailed description of research goals, and names of three references to: Dr. David B. Bykhnik, Chairman, Department of Pharmacology, University of Nebraska Medical Center, 600 South 42nd Street, Omaha, NE 68198–6200.

TENURE-TRACK POSITIONS

ASSISTANT OR ASSOCIATE PROFESSOR OF PHYSIOLOGY

The University of Tennessee, Memphis, Department of Physiology and Biophysics has two tenure-track positions at the ASSISTANT OR ASSOCIATE PROFESSOR level. These positions involve research and teaching in the areas of cellular, gastrointestinal, developmental, neurophysiology, or epithelial physiology and to engage in teaching activities of the department are expected. Applicants should send curriculum vitae, copies of three representative publications, and the names of three references to: Dr. Leonard R. Johnson, The Thomas A. Gerwin Professor and Chairman, Department of Physiology and Biophysics, 894 Union Avenue, Memphis, TN 38163. The University of Tennessee is an Equal Employment Opportunity/Affirmative Action Title IX/Section 504/ADA Employer. Minority and women are encouraged to apply.

Assistant/Associate Professor

Department of Cell Biology and Anatomy, University of Miami School of Medicine. Applications are invited for two tenure-track faculty positions from individuals whose research experience is in cell and molecular biology. Those working with microtubules and/or cell regulation in development or cancer biology or cell biology are particularly encouraged to apply. A willingness to teach gross anatomy would be advantageous for one of the positions. The successful candidate is expected to start up an independent, competitive laboratory, and a competitive salary are available. Application should send curriculum vitae, brief summary of research interests and names of three persons to serve as references to: Dr. Kermit Carraway, Chairman, Department of Cell Biology and Anatomy, University of Miami School of Medicine, P.O. Box 016960, Miami, FL 33101. An Equal Opportunity/Affirmative Action Employer.

Positions Open

Molecular Oncology Faculty Position

Louisiana State University Medical Center (LSUMC)-Shreveport is proud to announce the opening of the Center of Excellence in Cancer Research. Opportunities are available at the ASSOCIATE or FULL PROFESSOR level for individuals actively pursuing cancer research, especially in the areas of viral oncornogenesis, growth factors, oncogenes, and signal transduction. Appointments will be jointly between the center and either the Department of Microbiology/Immunology or Biochemistry/Molecular Biology.

If interested, please send three letters of reference, a copy of your curriculum vitae and a brief description of research interests to: Jonathan Glass, M.D., Professor of Medicine Director, Center for Excellence in Cancer Research LSU Medical Center-Shreveport P.O. Box 38925 Shreveport, LA 71130–3932

Assistant or Associate Professor, Colorado State University (CSU)

The Department of Biochemistry seeks applications for a tenure-track position from individuals working on the molecular regulation of eukaryotic gene expression at the level of transcription or mRNA utilization. The department occupies a new building containing modern laboratories and research facilities. Candidates must have a Ph.D. degree, postdoctoral experience, and a demonstrated ability to develop an independent and productive research program. The successful candidate must have demonstrated research accomplishments, and/or a record of research activity in one or more of the following areas: genetics, biochemistry, molecular biology, or immunobiochemistry. Send curriculum vitae, a statement of research interests and functions, three references by 31 December 1991 to: Dr. N. J. Curdjohns, Department of Biochemistry, Colorado State University, Fort Collins, CO 80523. CSU is an Equal Employment Opportunity/Affirmative Action Employer. Equal Opportunity office: 21 Spruce Hall.

Faculty Position in Microbiology and Immunology

The Department of Microbiology and Immunology, University of Health Sciences/The Chicago Medical School, invites applications for a faculty position at the rank of ASSISTANT, ASSOCIATE or FULL PROFESSOR. Applicants must have a Ph.D. and/or M.D. degree and a demonstrated research background in molecular, virology, or immunologic interests, and experiences in independent, research, and teaching, immunology, molecular biology, or immunogenetics. The successful candidate will be expected to develop and maintain strong independent, research, and research programs in the areas of immunology and to participate in teaching medical and graduate students. The department has established strength in the areas of infectious disease, experimental pathology, and the salary will be commensurate with qualifications and a negotiable starting date. Applicants should send curriculum vitae, a brief statement of research plans, and the names of at least three references to: Yoong Berrm Kim, M.D., Ph.D., Professor and Chairman, Department of Microbiology and Immunology, University of Health Sciences/The Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064. An Affirmative Action/Equal Opportunity Employer.

Gracie B. Kerr Chair in Biochemistry

The Department of Chemistry and Biochemistry at the University of Oklahoma is seeking an outstanding individual to occupy the Gracie B. Kerr endowed chair at the FULL OR ASSOCIATE PROFESSOR level. Candidates must have an active research program in the areas of biochemistry or structural biology, a strong record of research accomplishments, and a demonstrated commitment to teaching. Successful candidates are strongly encouraged to apply. Review of candidates will begin 15 December 1991, and will continue until an appointment is made. Applications and complete curriculum vitae, which includes a summary of research and teaching experience, and a description of ongoing and future research plans. Applicants should also have at least three references to Dr. Arthur E. Johnson, Chair, Search Committee, Department of Chemistry and Biochemistry, University of Oklahoma, Norman, OK 73019. The University of Oklahoma is an Affirmative Action/Equal Opportunity Employer.

Deputy head of Biologicals

Experienced candidates (M.S., Ph.D. or equivalent) with demonstrated practical expertise in immunology and cell biology are invited to apply for the position as deputy head of our biologicals. Department located in Gaitersburg, Maryland. Sound experience of all aspects of monoclonal antibodies, immunoassay systems and serology are required and some experience in virology is desirable. This position offers a good starting salary and excellent prospects for promotion. Please send letter of application, curriculum vitae and the names and addresses of three referees to: Classified Advertising, 1333 H Street, NW, Room 940, Washington, DC 20005.

Director Hematology

The University of Mississippi Medical Center is seeking candidates for the Division of Hematology. Candidates should have a record of scholarly accomplishment in hematology, have successfully competed for peer-review research support and be qualified for the academic rank of ASSISTANT/ASSOCIATE or FULL PROFESSOR. Qualified applicants should submit current curriculum vitae to: Dr. Martin Steinberg, VA Medical Center, 1500 East Woodrow Wilson, Jackson, MS 39216. The University of Mississippi Medical Center is an Equal Opportunity Employer, M/F/H/V.

Laboratory Director

Environmental Monitoring Systems Laboratory

Office of Modeling, Monitoring Systems and Quality Assurance

Las Vegas, Nevada

ES 401/1301

$87,000 TO $95,300

The U.S. Environmental Protection Agency (EPA) is seeking highly qualified candidates for the position of Laboratory Director, Environmental Monitoring Systems Laboratory, Las Vegas, NV (EMSL-LV), Office of Modeling, Monitoring Systems and Quality Assurance (OMMSQA). The EMSL-LV is a component of the Office of Research and Development (ORD) and is responsible for research and development supporting a major segment of the Agency’s programs relating to human and ecosystem exposure to environmental pollutants. The Laboratory conducts research and development in the areas of analytical chemistry, immunocchemistry, field monitoring methods and design, ecological status and trends, terrestrial exposure integrated human exposure assessment, human biomarkers of exposure, remote sensing, geohydrology, and environmental radiation assessment.

Applicants for this Senior Executive Service (SES) position must have a bachelor’s or higher degree in the biological or physical sciences, or a field relating to the work of the laboratory, and have at least five years of experience in executive level positions demonstrating leadership and technical competence in one of those fields. Applicants must also meet the technical and executive qualifications described in the vacancy announcement. For a copy of the vacancy announcement, call or write:

Chantue Gladney
Environmental Protection Agency
Executive Resources and Special Programs Division
Room M3910, 224
401 M Street, S.W. (Waterside Mall)
Washington, DC 20460

Telephone: (202) 260-2386

Applications must be postmarked by 1 December 1991. EPA is an Equal Opportunity Employer.

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The Department of Biology, Fredericton Campus, seeks an established Academic with a strong research and administrative record to serve as Chair for a Department consisting of 18 professors, 8 instructors and a current complement of 64 graduate students and postdoctoral fellows. The Department also enjoys close research ties with Federal and Provincial Departments of Agriculture, Forestry, Fisheries and Natural Resources and is a member of the Huntman Marine Science Centre at St. Andrews.

There are currently two vacancies and four more are expected within the next three years. Thus the successful candidate will have the opportunity to guide the development of the Department and add strength through these appointments. The field of research is open provided the candidate offers the required leadership qualities. Rank and salary are negotiable depending on the credentials of the candidate.

The appointment will begin on July 1, 1992 for a term of up to five years (renewable).

In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

THE UNIVERSITY OF NEW BRUNSWICK IS COMMITTED TO THE PRINCIPLE OF EMPLOYMENT EQUITY.

All applications should be sent to:
Dr. I. Unger, Dean
Faculty of Science
University of New Brunswick
P.O. Box 4400
Fredericton, N.B.
E3B 5A3
prior to January 31, 1992.

MOLECULAR GENETICS FACULTY POSITIONS

The Department of Molecular Genetics of The Ohio State University is initiating a search to fill two tenure track positions at the Assistant or Associate Professor level. We are particularly interested in applicants with research interests in molecular genetic studies of major topics in cell and developmental biology using experimental systems such as yeast, Drosophila, Caenorhabditis, Mus, and humans. However, highly qualified applicants with other research specialties within the broader area of molecular genetics will also be considered seriously. A highly competitive recruiting package is available, including an attractive (hard money) salary, generous laboratory space, substantial funds for equipment purchase and funds for initial operating expenses, independent of extramural grant support. The Ohio State University is in the process of a major expansion in Molecular Biology and Biotechnology, and a substantial number of additional positions are anticipated in the future. Women and members of minority groups are enthusiastically encouraged to apply.

The Ohio State University is the flagship institution of the state's higher education system. It is located in the state capital, Columbus, which is a growing, yet highly affordable, metropolitan area of about 1.3 million people. Columbus has been ranked by Newsweek as one of the country's best places to live and work.

Applications should include a detailed curriculum vitae, a description of research experience, a statement of the nature of the planned independent research program, and the name, address and telephone number of each of four scientists who have agreed to serve as references. Applications will be accepted until suitable candidates are hired but recruiting is scheduled to begin in earnest by December 1991. Information about our Department can be obtained by calling our offices at 614-292-8084.

Application materials should be sent to: Dr. Alan M. Lambo-witz, Molecular Genetics Search, Department of Molecular Genetics, The Ohio State University, 484 W. 12th Avenue, Columbus, Ohio 43210.

The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

U.S. DEPARTMENT OF ENERGY
OFFICE OF HEALTH AND ENVIRONMENTAL RESEARCH

Alexander Hollaender
DISTINGUISHED
Postdoctoral Fellowship Program

Research Opportunities in Energy-Related Life, Biomedical, and Environmental Sciences

* Research in OHER-sponsored programs
* Tenable at various national laboratories
* Stipends $37,500
* Doctoral degree received after April 1, 1990
* U.S. citizens or PRA eligible

Information and applications:

Hollaender Postdoctoral Fellowships
Science/Engineering Education
Oak Ridge Associated Universities
P.O. Box 117
Oak Ridge, TN 37831-0117
(615) 576-4565

Deadline January 15 1992

MEDICAL RESEARCH COUNCIL
Laboratory of Molecular Biology, Cambridge

TENURE TRACK POSITIONS IN NEUROBIOLOGY

Applications are invited from independent scientists to develop a programme of basic molecular research in the newly created Division of Neurobiology. Up to 5 posts will be available.

Among the topics of particular interest are biochemical and electrophysiological studies of neuromodulators and ion channels, formation and differentiation of synaptic connections, and molecular mechanisms of memory and learning, but other areas will also be considered.

Successful applicants will be able to interact closely with staff in other Divisions of the Laboratory of Molecular Biology. Research in the Centre is conducted across a variety of topical and long term projects that explore the structures of proteins, nucleic acids, membranes and organelles, and are aimed at understanding cellular processes at the molecular level. An excellent range of cell culture and biochemical facilities, shared instrumentation and workshops is available.

Salary will be at an appropriate point on the MRC Non-Clinical Scientific scale (equivalent to the University Academic scale).

Further information may be obtained from Dr. Nigel Unwin (0223) 402410.

Applications, including CV, a brief description of research interests and the names and addresses of two professional referees should be sent as soon as possible, quoting reference TT/NU to:

The Personnel Officer, MRC Centre, Hills Road
Cambridge, CB2 2QH UK

The Medical Research Council is an Equal Opportunity Employer.
POSITIONS OPEN

DEPARTMENT OF VETERANS AFFAIRS
VETERANS HEALTH ADMINISTRATION

DIRECTOR MEDICAL RESEARCH SERVICE

The Department of Veterans Affairs invites applications for the position of Director, Medical Research Service. The Medical Research Service currently has a budget of about $200 million and supports biomedical and behavioral science research of over 2500 VA scientists, 70 percent of whom are physicians. It is strongly committed to support of patient-oriented research across the entire spectrum from basic science to clinic applications of new knowledge. The director is responsible for policy development, peer review management of all investigator-initiated research studies and budget formulation and distribution. Candidates are expected to be nationally recognized scientists and they must have an established record of scholarly achievement. The position is only available to U.S. citizens/nationals who can financially support his/her family. Salary is $83,032 with additional special pay up to $45,600.

Qualified applicants are invited to send curriculum vitae, bibliography and the names, addresses and telephone numbers of three references by 1 December 1991 to: H. Craig Wilkins, M.D., Associate Director for Research and Development (12), Department of Veterans Affairs, 810 Vermont Avenue, NW, Washington, DC 20420. Equal Opportunity Employer.

DIRECTOR OF THE SCHOOL OF REAL AND NATURAL RESOURCES
COLLEGE OF AGRICULTURE,
UNIVERSITY OF ARIZONA

The University of Arizona invites applications and nominations for the position of Director of the School of Renewable Natural Resources, College of Agriculture. The School, with instruction, research, and cooperation extension programs involving landscape, range, watershed, and wildlife fisheries resources. Total student enrollment is approximately 400.

Applicants should have an earned doctorate with credentials for appointment as a full professor, a distinguished scholarly career in natural resources, and proven leadership with an ability to work with western public land and water issues and the land grant philosophy.

Applications will be reviewed beginning 20 December 1991, and will continue until the position is filled. Send a letter of application with updated curriculum vitae listing the addresses and telephone numbers of three referees for administrative review by 1 December 1991 to: William Hanks, M.D., Chair, Search Committee for the School of Renewable Natural Resources, 825 Biological Sciences East Building, The University of Arizona, Tucson, AZ 85721. Women and minorities are encouraged to apply.

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

DIRECTOR, SCHOOL OF CHEMISTRY AND BIOCHEMISTRY,
GEORGIA INSTITUTE OF TECHNOLOGY

Georgia Institute of Technology invites nominations and applications for the position of Director of the School of Chemistry and Biochemistry. The school forms one of the strongest components in the College of Sciences at Georgia Tech, with an excellent, well-established program of research and teaching, both at the graduate and undergraduate levels. We are seeking a person with an outstanding record of scholarly and educational achievement to provide energetic leadership in chemistry, and in the development of interdisciplinary programs. The School of Chemistry and Biochemistry currently has 130 graduate students and 20 professional scientists and postdoctoral fellows. Our present faculty strength is 51, and in a 5-year, 10 percent annual growth projection to increase this number over the next several years. Evaluations of candidates for the position will begin 1 December 1991, and applications will be accepted until the position is filled. We hope to have the new director in position for the 1992 academic year.

Applications, including curriculum vitae, names and addresses of three references should be sent to: Chair, Search Committee, School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, GA 30332-0400.

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

POSITIONS OPEN

DIRECTOR
CENTER FOR THE ANALYSIS OF ENVIRONMENTAL CHANGE (CABE)

We are seeking an individual to provide leadership and administrative oversight of the research center formed cooperatively by Oregon State University (OSU); the Pacific Northwest Experiment Station of the U.S. Forest Service; and the Oregon Research Laboratory-Corvallis, U.S. Environmental Protection Agency; and Battelle, Pacific N.W. Laboratories. CABE serves as the focal point for the development of long-term, multidisciplinary research programs pertaining to environmental change. The director works closely with associate directors from each of the participating institutions and reports administratively to the Dean of Research, OSU.

The director will be appointed to the OSU faculty at the rank of professor. He or she must be qualified for tenure in an appropriate department at OSU. The position is a 12-month appointment, 1.0 FTE, with a 9-month indefinite tenure commitment. Salary will be competitive with faculty positions with appropriate qualifications.

Applicants should submit a letter of interest and a resume along with the names, addresses, telephone and FAX numbers of four reference letters will be contacted only with the consent of the candidate. Closing date for nominations is 15 November 1991; closing date for applications is 1 December 1991. The position is available 1 February 1992.

Nominations and applications should be directed to: Dr. Richard A. Scanlan Dean of Research Adm 121 OSU Oregon State University Corvallis, OR 97331-2140 or FAX 503-737-7967.

OSU is an Affirmative Action/Equal Employment Opportunity Employer and is responsive to dual-career needs.

The Department of Oral Medicine, Pathology, and Surgery at the University of Michigan School of Dentistry invites applications for a TENURE-TRACK FACULTY APPOINTMENT by life scientists with primary interests in bone growth and repair and the role of growth factors in these processes. Rank will be commensurate with credentials and experience. A Ph.D. degree or equivalent is necessary. Candidates should have documented experience in this area, will be expected to develop an independent research program and to collaborate with other investigators in the school. Applicants will be contacted for an interview by 10 February 1992. Salary is negotiable. A Ph.D. degree or equivalent is necessary. Applications should be submitted to: Dr. Carl T. Hanks, Dean of Dental Medicine, Department of Oral Medicine, Pathology, and Surgery, 822 South School of Dentistry Detroit, Michigan 48201 or FAX 313-763-0663.

The School of Dentistry at the University of Michigan is an Equal Opportunity, Affirmative Action Employer.

The University of Michigan is an equal opportunity/affirmative action employer.

CELL AND DEVELOPMENTAL BIOLOGY

The Department of Biological Sciences anticipates a junior faculty position in CELL AND DEVELOPMENTAL BIOLOGY in the area of cell or developmental biology. Applicants using Drosophila as a model system approaching basic cellular or developmental problems are especially encouraged to apply. The successful candidate will be expected to develop an extramurally funded research program, train graduate students, and participate in undergraduate teaching. The junior level established research program and an interest in directing further faculty recruitment is expected. Applicants should have a Ph.D. degree and a summary of research interests and goals, and arrange to have at least three letters of reference sent to:

Cell and Developmental Biology
Department of Biological Sciences
University of Pittsburgh
Pittsburgh, PA 15260

An Affirmative Action/Equal Opportunity Employer. Women and members of minorities are especially encouraged to apply.

POSITIONS OPEN

DATA MANAGER FOR THE GENOME DATA BASE

The Genome Data Base is a central repository for major human genome data except for bulk DNA sequence. This international database is hosted at The Johns Hopkins University School of Medicine under joint support from the Department of Energy and the National Institutes of Health.

We seek an energetic and visionary scientist for the position of data manager who is excited by the idea of shaping the knowledge base serving the international Human Gene Mapping initiative. The Data Acquisition Validation and Maintenance Core of the GDB aims at supporting the human gene mapping community in the synthesis, integration, and control of mapping information of all kinds. Specific data management responsibilities include participating in the definition of genetic markers as map objects, establishment of standards for data representation and nomenclature, and coordinating acquisition, validation and maintenance of the data.

Requirements: Advanced training in the biological or life sciences with experience in the development and management of complex human gene mapping data; strong interpersonal skills; keen and critical understanding of the issues surrounding database acquisition, validation, structuring, representation, and display.

Appointment: This is a faculty appointment within the School of Medicine. The level of appointment and salary will be commensurate with experience. Nominations are welcome. We wish to identify the successful candidate as soon as possible.

Mail or FAX a letter of nomination or an application with curriculum vitae by 1 January 1992 to:

Dr. L. Pearson, Ph.D., Director
Genome Data Base
The Johns Hopkins University
1830 East Monument Street, Baltimore, MD 21205
International: pearson@welch.edu
Voice: 410-955-9705
FAX: 410-955-0054

The Johns Hopkins University and The Pennsylvania State University are Equal Opportunity/Affirmative Action Employers.

BIOCHEMISTRY

The Department of Chemistry of the City College of New York invites applications for tenure-track FACULTY POSITION in Biochemistry. A Ph.D. and at least 2 years of postdoctoral experience required. The candidate will be expected to pursue a vigorous externally funded research program in experimental biochemistry utilizing physical techniques and/or the tools of molecular biology, and to teach on the undergraduate and graduate (doctoral and course work) levels.

Rank and salary will depend on training and experience and is negotiable. Send detailed curriculum vitae, which includes a description of proposed research and beginning 15 December 1991, and continue until both positions are filled. Applications for junior faculty positions subject to yearly renewal. Positions can be full-time or part-time with joint research opportunities with other faculty. A descriptive letter is strongly recommended. Candidates should send curriculum vitae, a letter indicating research (and teaching) interests, and the names and telephone numbers of three referees to: Professor L. Maxson, Head, Department of Biology, Box B1, 208 Muellert Laboratory, Penn State University, University Park, PA 16802. Applications will be reviewed immediately and continued until both positions are filled.

An Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.
**Postdoctoral Scientist**

**Drug Metabolism and Pharmacokinetics**

SmithKline Beecham Pharmaceuticals, a worldwide leader in pharmaceuticals research, is seeking a postdoctoral scientist to perform basic research in the area of drug interactions related to inhibition or induction of cytochrome P-450 dependent metabolism. The scientist will use in vitro and in vivo techniques to gain an understanding of the effects of specific therapeutic agents on cytochrome P-450 dependent metabolism and implications concerning the pharmacokinetics of other therapeutic agents. This position offers the opportunity to interact with senior members of the department to facilitate professional growth. The scientist will report research results within the company and at national scientific meetings and be encouraged to publish these results in leading scientific journals.

The successful candidate is required to have a Ph.D. degree in biochemistry, pharmacology, analytical chemistry, pharmaceutics or related area. A working knowledge of biotransformation techniques such as GC or HPLC and a demonstrated ability to apply multi-disciplinary techniques to hypothesis testing is also required. Practical experience in pharmacokinetic data analysis and in-vitro metabolism is preferred.

Located in a state-of-the-art facility in suburban Philadelphia near Valley Forge, PA, we offer a challenging, stimulating environment in which to grow and excel. For confidential consideration, please forward your resume to Helen McConnell, HO28, SmithKline Beecham Pharmaceuticals, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.

SB
SmithKline Beecham Pharmaceuticals

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**FACULTY POSITION**

McMASTER UNIVERSITY
INSTITUTE FOR MOLECULAR BIOLOGY AND BIOTECHNOLOGY

The newly-inaugurated Institute for Molecular Biology and Biotechnology is building a group composed of independent, but interactive scientists interested in the molecular biology of development. We seek candidates who are capable of applying molecular genetic techniques to study developmental processes in model eukaryotic organisms. Individuals studying the regulation of transcription, signal transduction, and the mechanism of action of oncogenes or the products of tumor suppressor genes are especially encouraged to apply.

The successful candidate will be provided with operating and start-up funding from McMaster University and from a Terry Fox Team Development Grant awarded by the National Cancer Institute of Canada.

Applicants should send a current curriculum vitae, a statement describing their research accomplishments and future goals, and the names of three references to: Dr. John A. Hassell, Institute for Molecular Biology and Biotechnology, McMaster University, 1280 Main Street West, Hamilton, Ontario, Canada, L8S 4K1.

In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

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**UNIVERSITY OF OXFORD**

In Association With
Somerville College
Or Lincoln College

**UNIVERSITY LECTURERSHIP IN MOLECULAR BIOPHYSICS**

Laboratory of Molecular Biophysics
Biochemistry Department

Applications are invited for the above post to start on 1st October 1992 (or as soon as possible thereafter). The lecturer will join a group active in structural studies on enzymes and viruses with well equipped X-ray, computational and biochemical facilities. Candidates should have expertise in the general area of structural molecular biology and preference will be given to those interested in developing a programme on multi-component systems using gene cloning, protein expression and X-ray diffraction. The lecturer will contribute to the teaching in Biochemistry and to the introduction of Biochemistry into Physics. Stipend according to age on the scale £18,860-£25,343 per annum. The successful candidate may be offered a tutorial fellowship by Somerville College, the statutes of which provide that all fellows shall be women, or by Lincoln College, for which additional emoluments would be available.

Application (8 typed copies, 1 from overseas candidates) together with cv, list of publications, statement of research and the names of three referees should be sent by 25th November 1991 to Professor L.N. Johnson, Laboratory of Molecular Biophysics, R.J. Richards Building, South Parks Road, Oxford OX1 3QU England from whom further particulars containing details of the duties and the full range of emoluments and allowances attaching to both the University and college posts may be obtained (Fax 0865-510454).

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**POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE**

Postdoctoral research positions are available immediately in the Department of Pharmacology, University of Colorado Health Sciences Center, Denver, Colorado. Areas of study include: 1) CNS signal transduction mechanisms (G protein structure and function) with Dr. Boris Tabakoff and 2) the neuropeptide vasopressin: its mechanism of CNS action and the regulation of its synthesis, with Dr. Paula Hoffman. These investigations will focus on the role of G proteins and vasopressin in addiction to alcohol and other drugs, and require expertise in biochemical and molecular biological methodology. The techniques used include enzyme assays, mRNA isolation and quantitation, in situ hybridization, receptor binding and autoradiography and behavioral pharmacology. Candidates with 1 or more years of postdoctoral training are encouraged to apply, but newly-graduated individuals with molecular biological expertise will also be considered. Salary is commensurate with training and experience. Send curriculum vitae and three letters of recommendation to: Dr. Paula Hoffman, Department of Pharmacology C236, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262. The University of Colorado is an Equal Opportunity/Affirmative Action Employer.

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**ASSOCIATE SCIENTIST POSITION**

Position available for Associate Scientist (minimum three years postdoctoral experience) or postdoctoral fellow. Research will focus on characterization of signal transduction pathways in cells responsible for regulating biological responses to mechanical deformation. Specific emphasis will be placed on mechanisms which regulate generation of second messengers by phospholipases. Experience in nucleic acid molecular biology and cell biology preferred.

Competitive salary and fringe benefits are available. Please send CV and three names or letters of reference to: Dr. Peter A. Watson, Weis Center for Research, Geisinger Clinic, North Academy Avenue, Danville, PA 17822-2615. Equal Opportunity Employer M/F/H/V.

Geisinger Clinic
POSITIONS OPEN

FACULTY POSITION BIOCHEMIST

The Departments of Chemistry and Biology of the University of St. Thomas jointly invite applications for a full-time tenure-track position in biochemistry. The rate of the position is open and salary will be commensurate with the successful candidate’s experience. The position commences with the fall semester and will include teaching courses in biochemistry, laboratories in organic chemistry and, if necessary, involvement in the general chemistry program. The successful candidate should also have a strong enough background in organic chemistry to be able to teach organic lectures as the occasion demands. The development and implementation of a research course as well as the establishment of a vigorous research program involving undergraduate students are expected. Postdoctoral research experience will be considered advantageous to the establishment of a research program. A Ph.D. in biochemistry is required as well as a strong commitment to teaching at the undergraduate level in a liberal arts setting. St. Thomas is a comprehensive, Catholic liberal arts college committed to the total development of the individual student. Send letter of application, brief statement of teaching philosophy and research plans, curriculum vitae, and arrange to have three letters of reference sent directly to: Ms. Penny Pease, Science Division Office Coordinator, Mail Code A390, University of St. Thomas, 2115 Summit Avenue, St. Paul, MN 55105–1096. All materials must be received by 1 December 1991. The University of St. Thomas is an Equal Opportunity/Affirmative Action Employer.}

BIOTECHNOLOGY FACULTY

Tenure-track position available in biology beginning August 1992 to develop an undergraduate program in biotechnology. A Ph.D. in biotechnology or related field and two years of teaching and recombinant DNA techniques (including vector and host transformation, genomic library preparation, PCR technology, and DNA sequencing) is expected. Commitment to teaching, curricular possibilities will include program development and student supervision. Qualification of undergraduate experience is strongly encouraged. Review of applications will begin on 1 February and continue until the position is filled. St. Ambrose is a medium-sized, Catholic university with four full-time faculty in biology and three in chemistry. Send curriculum vitae, interest statement, and three letters of recommendation to: Director of Personnel, St. Ambrose University, 518 West Locust Street, Davenport, IA 52803. Women and minorities are encouraged to apply and identify themselves. Affirmative Action/Equal Employment Opportunity.

COGNITIVE NEUROSCIENCE. The Department of Psychology at Carnegie Mellon University invites applications from cognitive neuroscientists for a FACULTY POSITION preferably at a mid-career level, but not necessarily limited to, the junior level. Cognitive neuroscience at Carnegie Mellon is characterized by attempts to arrive at cognitive theories derived from consideration of the computational properties of neural circuitry, from patterns of damage following brain injury, and from postnatal development of the brain. A variety of different techniques ranging from computational modeling to animal studies are currently utilized. In the near future opportunities for PET scanning will also become available. This is a time of a plan to make cognitive neuroscience an independent "track" within the department. Please send curriculum vitae, statement of research interests, representative papers, and three letters of recommendation to: Cognitive Neuroscience Search Committee, Department of Psychology, Carnegie Mellon University, Pittsburgh, PA 15213–3890. Applications received by October 1, 1992. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS in neuroimmunology/neuro- oncology in the Division of Neurology, Harvard Medical School, beginning December 1992. A multidisciplinary approach is used to understand and manipulate the effects of the immune system on brain tumour, autoimmune and ALS. Send résumé, with names of references, to: Dr. Lewis Lampson, Division of Neurology, LMRC 116, Brigham and Women’s Hospital, Boston, MA 02115.

POSITIONS OPEN

FACULTY POSITIONS: BIOCHEMISTRY UNIVERSITY OF ALABAMA AT BIRMINGHAM

Tenure-track faculty positions are available for candidates interested in the growth and development of independent research programs with long-term growth potential. All areas will be considered. The Department of Biochemistry has excellent facilities, and a sizable complement of postdocs and students. The position will be under the direction of a newly appointed professor. Commitment to teaching and research is expected. Candidates should send applications and three letters of recommendation to: Dr. Stephen C. Harvey, Department of Biochemistry, the University of Alabama at Birmingham, Birmingham, AL 35294.

An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN PHARMACOLOGY UNIVERSITY OF CALIFORNIA, IRVINE

Applications are invited for a tenured or tenure-track position in pharmacology. Qualifications include an outstanding record of research accomplishment with experience in molecular biological approaches to problems in pharmacology or related areas, a commitment to teaching, and a Ph.D. in pharmacology or related field. Level of appointment and salary will be commensurate with achievement and experience. Curriculum vitae, references, and a summary of research interests should be sent by 1 December 1991 to: Dr. Larry Stein, Chairman, Department of Pharmacology, College of Medicine, University of California, Irvine, CA 92717. An Affirmative Action/Equal Employment Opportunity Employer.

POSTDOCTORAL APPOINTEE. Institute of Gas Technology (IGT), a leading energy and environmental R&D organization, has an immediate opening in our Biotechnology and Environmental Research area for a Ph.D. in microbiology, biochemistry, organic chemistry, or agronomy. Actual research experience in microbiology, organic chemistry of oxidative reaction, biocatalysis, and analytical chemistry of environmental samples is required. Knowledge of EPA QA/QC protocols a plus. Will be responsible for conducting task-related research for an ongoing EPA project, analyzing and reporting results, and suggesting future experiments. Must have excellent work habits, good oral and written communication skills, and be a self-starter who is able to work with minimal supervision. Possess a professional environment, excellent benefits, and competitive salary. For confidential consideration, please send résumés with salary requirements to: IGT, 3424 South State Street, Chicago, IL 60616. Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITIONS in MOLECULAR PARASITOLOGY. NIH-funded fellowship, restricted to U.S. citizens or permanent residents, available for a molecular biologist to study the genomic organization, expression and production of stage-specific antigens, as well as the regulation of gene expression, in Drs. Rue K. Nilsen and Harvey D. Manderscheid’s laboratory. Send curriculum vitae, names and references to: Dr. Brian F. O’Dowd or Dr. Susan George, Department of Pharmacology, University of Toronto, Ontario M5G 1A6 Canada.

POSTDOCTORAL POSITION

Available immediately to study the molecular and cell biology of human placental Fc receptors and their role in the transport of IgG across the placenta. A second focus of this NIH-funded project is to examine the role of these receptors in HIV-1 infection of the fetus. Send curriculum vitae, names and references to: Dr. James R. Smith, Department of Pathology, 139 Hamilton Hall, 1645 Neil Avenue, The Ohio State University, Columbus, OH 43210.

The Ohio State University is an Equal Opportunity/ Affirmative Action Employer. Qualified women, minorities, Vietnam era veterans, and disabled candidates are encouraged to apply.

POSTDOCTORAL POSITION. Available January 1992 for research on structure/regulation of an ammonium inducible promoter of a nuclear gene encoding two chloroplast photoreceptors and transforma-


POSTDOCTORAL POSITION available in multi-
disciplinary research group interested in neuron-glia inter-

actions, to study ion-channel expression in glial cells. Project involves patch-clamp recording ofion channels and transfor-


Equal Opportunity/Affirmative Action Employer.
POST DOCTORAL FELLOWSHIPS

The University of Missouri-Kansas City (UMKC), the University of Kansas (KU) and Marion Merrell Dow Foundation have established a Scientific Education Partnership dedicated to developing a regional center of excellence in modern biological and biomedical research related to diseases and treatment of the aging population.

A key element of the Partnership continues to be the awarding of Post Doctoral Fellowships in the following areas of basic research:

- Molecular immunobiology
- Protein structure and function
- Neuroscience
- Molecular genetics
- Molecular pharmacology
- Developmental molecular biology

Research activities may be conducted in the laboratories of university mentors at either UMKC or KU.

Appointments will be for 2 years at a stipend of $30,000 (year 1) and $35,000 (year 2).

For further information, individuals with background and interest in these areas of basic science should write or fax (816-966-4400):

Anthony J. Hancock, PhD
Director, Scientific Partnerships
Marion Merrell Dow Inc.
P.O. Box 8480
Kansas City, MO 64114-0480

Inquiry for information should be received no later than December 20, 1991.

Deadline for completion of application is February 1, 1992.

MARION MERRELL DOW FOUNDATION
THE UNIVERSITY OF KANSAS
UNIVERSITY OF MISSOURI-KANSAS CITY

RESEARCH TOXICOLOGIST

The Upjohn Company, a recognized leader in research, production and marketing of quality pharmaceuticals, invites applications for the position of Research Toxicologist in our Drug Safety Research Group.

As a member of a multi-disciplinary team, this Research Scientist will support and enhance the drug development process in our human and animal health businesses. This scientist will be responsible for the study design, implementation, supervision of study conduct, and the interpretation and reporting of drug safety studies required to characterize the toxicity of drug candidates in multiple laboratory animal species. These studies will support human safety and human food safety with a world-wide emphasis. This person will have excellent planning and organizational skills to conduct long-term (3 to 24 months) animal studies in accordance with GLP guidelines. Excellent written and oral skills are required for preparation of technical reports and numerous personnel interactions. A Ph.D or D.V.M. with Ph.D in Toxicology or related discipline is necessary, as well as strong interest, knowledge and relevant experience in general animal toxicology. ABT certification or eligibility is a plus.

Upjohn offers a competitive compensation and benefits package in addition to a stimulating, multi-disciplinary research environment at our modern laboratories in Kalamazoo, Michigan. You are invited to send your curriculum vitae to: The Upjohn Company, Corporate Recruiting, 7000 Portage Road, Kalamazoo, MI, 49001-0199. Refer to Position Number 910782-086 in your cover letter. An Equal Opportunity Employer M/F.

THE OHIO STATE UNIVERSITY

The Ohio State University Postdoctoral Fellowships beginning July 1, 1992, are available in all academic fields. Appointment is for one year (12 months) with a stipend of $23,000. A one-time reimbursable supplement of up to $500 is provided to assist with moving expenses to Columbus. In addition, a one-time $500 allowance is available to help defray travel costs for professional meetings.

Only those Postdoctoral fellowship applications sponsored by a graduate faculty member of The Ohio State University will be considered by the Graduate School. The deadline for submission of completed applications by a faculty member is January 6, 1992. Prospective applicants are advised to make early contact with an Ohio State faculty member.

Candidates must have received the Ph.D. degree, or comparable professional degree (D.Ed., D.M.A., or D.Sc.) within the past five years. Contact a member of the Ohio State University graduate faculty or send a resume and description of your primary research interest to:

Roy A. Koenigsorst
Dean of the Graduate School
The Ohio State University
230 North Oval Mall, #250
Columbus, Ohio 43210-1366

These materials will be forwarded to the academic department of your choice.

An Affirmative Action/Equal Opportunity Employer

RESEARCH SCIENTISTS
RESEARCH INSTITUTE OF THE WESTERN PENNSYLVANIA HEALTHCARE SYSTEM, INC.
PITTSBURGH, PENNSYLVANIA

Applications are being invited for research staff positions in a private, multi-disciplinary research institution at levels equivalent to either an Assistant or Associate Professor. The recently established institute is housed in a state-of-the-art 31,000-square-foot facility within walking distance to The Western Pennsylvania Hospital. Areas of clinical excellence and associated research programs include medical genetics, oncology and cardiovascular disease. Candidates must have expertise in the areas indicated, an independent research program and current, peer-reviewed funding. The West Penn Research Institute is supported in part by The West Penn Hospital Foundation. The institute provides competitive salaries and benefits, start-up funds and the potential for affiliations with other area medical centers and academic institutions. The institute provides an atmosphere for established scientists to pursue both basic and clinical research. Interested applicants should send their curriculum vitae, the names of three references and a brief statement of research interest to:

Gary B. Schneider, Ph.D.
Director
Research Institute of The Western Pennsylvania Healthcare System, Inc.
4800 Friendship Avenue
Pittsburgh, PA 15224
POSTDOCTORAL POSITION available for an individual interested in studying molecular mechanisms of liver regeneration and hepatocyte-specific gene expression. In particular, RNA sequences which confer mRNA stability, as well as trans-acting factors which bind to these regions, will be studied. Prof. R. B. Lingley, Department of Molecular Biology and Biochemistry, Washington University School of Medicine, Box 8231, 660 South Euclid, St. Louis, MO 63110.

POSTDOCTORAL POSITION available to study intracellular signaling in B lymphocytes, focusing on relating signaling activity of protein kinases, the function of sequence-specific DNA binding proteins (NF-KB, Jun/Fos, CREB), and the expression of immediately early and proto-oncogene transcripts in biochemistry or molecular biology preferred. Send curriculum vitae and the names of three references to: Thomas L. Rothstein, M.D., Ph.D., Room E-502, University Hospital, 8231-0614, Rockville, MD 20852. Telephone: 617-638-7002; FAX: 617-638-7086. An Equal Opportunity/Affirmative Action Employer.

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POSTDOCTORAL POSITION available in research program investigating the immunotherapy and chemotherapy of Mycobacterium tuberculosis and Mycobacterium avium, focusing on new drug targets, vaccine development, and the mechanism of action of existing drugs. Send curriculum vitae and the names of three references to: Dr. Ian Orme, Department of Molecular Biology and Biochemistry, Colorado State University, Fort Collins, CO 80523. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS available for recent Ph.D.’s to participate in an active research program on the structure, regulation and expression of human DNA repair genes. Current research focuses on the molecular defects which underlie cancer-prone human genetic disorders and structural analysis of multifunctional repair enzymes by site-specific mutagenesis. Submit curriculum vitae and the names of three references to: Dr. Michael A. Slattery, Fels Institute for Cancer Research, Pennsylvania State University College of Medicine, 430 North Broad Street, Philadelphia, PA 19140. Equal Opportunity/ Affirmative Action Employer.

POSTDOCTORAL POSITION available for an individual interested in studying molecular mechanisms of liver regeneration and hepatocyte-specific gene expression. In particular, RNA sequences which confer mRNA stability, as well as trans-acting factors which bind to these regions, will be studied. Prof. R. B. Lingley, Department of Molecular Biology and Biochemistry, Washington University School of Medicine, Box 8231, 660 South Euclid, St. Louis, MO 63110.

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**NEUROSCIENCE CENTER OF EXCELLENCE**  
**LOUISIANA STATE UNIVERSITY MEDICAL CENTER**  
**SCHOOL OF MEDICINE, NEW ORLEANS**  

Clinical Neuroscientists  
To lead Clinical-Research Efforts in  
*Stroke and Cerebrovascular Diseases*  
*Alzheimer's Disease and Other Age Related Dementias*  

The Neuroscience Center of Excellence jointly with clinical departments (e.g., Neurology, Psychiatry) invites clinical neuroscientists to apply for faculty appointments at a rank commensurate with qualifications. The Center is developing a comprehensive effort in the neurosciences bringing together clinical neurosciences, clinical research, fundamental research, postgraduate medical education, graduate studies (i.e., Ph.D. program in Neuroscience will begin in 1992), postdoctoral training and services.  

The search currently is under way for two clinical neuroscientists that will lead a clinical research effort in stroke and cerebrovascular diseases and in Alzheimer's Disease and other aging related dementias. The appointments can be made anytime. Salaries are highly competitive. Adequate space, excellent and expanding infrastructure (e.g., core laboratories), and start-up funds are available. Teaching activities will be limited and will include the new graduate program in the neurosciences. We are seeking outstanding candidates. Application should include a curriculum vitae, up to ten reprints of the past five years, statement of current and future research (4-5 pages) and name and address of three references.  

Applications should be received no later than December 15, 1991.  

Send to:  
Nicolas G. Bazan, M.D., Ph.D. or  
Co-Chair of Search Committee  
Professor of Neurology  
LSU Eye Center  
2020 Gravier Street, Suite "B"  
New Orleans, LA 70112  

Austin J. Sumner, M.D.  
Co-Chair of Search Committee  
Professor and Head of Neurology  
LSU School of Medicine  
1542 Tulane Avenue  
New Orleans, LA 70112

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**POST-DOCTORAL RESEARCH FELLOW**  
**Transcriptional Regulation by the Viral and Cellular *rel* Oncogenes**  

Highly motivated postdoctoral researcher sought to study the function of the viral and cellular *rel* oncogenes in lymphoid cell growth, differentiation and transformation. Specific areas of interest include:  

(i) Functional analysis of the *v*- and *c-rel* oncoproteins  

(ii) Regulation of *v*- and *c-rel* function  

(iii) Regulation of gene expression by *rel*-family proteins  

The CABM is a newly established molecular biology research institute with state-of-the-art facilities available. Interested candidates should send CV and arrange to have three letters of reference sent to:  

Dr. Céline Gélinas  
CABM  
679 Hoes Lane  
Piscataway, NJ 08854–5638  

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**THE CHINESE UNIVERSITY OF HONG KONG**  

Applications are invited for  
Senior Lectureship in the Department of Anatomy  

The Department is responsible for anatomical teaching and research courses to medical students in topographical anatomy, neuroanatomy, histology, embryology and genetics. Anatomy courses are also offered to undergraduate students in nursing and pharmacy.  

Applicants should have a doctorate in an appropriate subject or a medical qualification and should normally have not less than 5 years of teaching experience in one or more of the above subject areas. The Department has excellent funding and offers first class research facilities which include electron microscopy and tissue culture. Active research programmes in neurobiology, tumor biology and cell differentiation are in progress and collaborative programmes with other basic medical science and clinical departments are well established. The appointees are expected to assume duty in August, 1992 or as soon as possible thereafter.  

**Annual Salary**  
HK$480,360–645,300 by 8 increments  
(approx. exchange rate: US$1=HK$7.8)  

Starting salary will depend on qualifications and experience.  

**Conditions of Service**  
The University offers a competitive remuneration package. For superannuable appointment, benefits include leave with full pay, contributory superannuation scheme (University 15%, appointee 5%), medical and dental care, education allowances for children, housing benefit (with appointee contributing 7.5% of salary towards the provision of housing). Appointment may also be made on fixed term contract which carries equivalent benefits including a contract-end gratuity (15% of basic salary) in lieu of superannuable benefits. The University may also consider more flexible terms for suitable candidates.  

**Application Procedure**  
Send full resume in duplicate, giving full particulars as well as names and addresses of 3 referees, together with copies of qualification documents (in duplicate) and recent publications to the Personnel Section, the Chinese University of Hong Kong, Shatin, Hong Kong before November 30, 1991. Please quote the reference number 72/509/ 2/91 and mark "Recruitment" on cover.
POSITIONS OPEN

POSTDOCTORAL FELLOW

Position available for a POSTDOCTORAL FELLOW (M.D., Ph.D.) in experimental carcinogenesis, and having experience with molecular biology. Please submit curriculum vitae and three letters of reference to: Dr. Peter M. Adams, Adm. Dir., University of Pittsburgh, Department of Pathology, School of Medicine, 720 Scaife Hall, Pittsburgh, PA 15261. The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer. 

POSTDOCTORAL RESEARCH ASSOCIATE

Requires an earned Ph.D. in animal science or a related field with emphasis on ruminant nutrition. Duties include: (1) conducting ruminant animal nutrition studies and experiments; (2) preparing papers for publication; (3) summarizing data analyses by SAS is required. Position location: Moscow, Idaho. Forty hours per week. Salary: $22,000 per year. Send résumé and names of three references to Idaho Department of Employment, Employment and Training Program, Dept. of Animal Science, 1325 Main Street, Boise, ID 83785 no later than 1 December 1991.

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE

Position available for a POSTDOCTORAL FELLOW (M.D., Ph.D.) in experimental carcinogenesis, and having experience with molecular biology. Please submit curriculum vitae and three letters of reference to: Dr. Peter M. Adams, Adm. Dir., University of Pittsburgh, Department of Pathology, School of Medicine, 720 Scaife Hall, Pittsburgh, PA 15261. The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer. 

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MOLeCULAR NEUROBIOLOGY

POSITIONS FOR SENIOR, STAFF AND FOREIGN FELLOWS

NATIONAL INSTITUTE FOR DRUG ABUSE (NIDA)

The Laboratory of Molecular Neurobiology, NIDA/ADDD, invites applications from qualified individuals who wish to enhance their fundamental research training in the areas of (1) cloning drug and neurotransmitter receptors with special emphasis on transporter genes, (2) characterization expression of these genes in transgenic mice, (3) understanding mechanisms of neurotransmitter gene regulation in cell culture and brain, and (4) RFLP association and linkage studies in human population. Salary and benefits are competitive. Applicants with expertise and interests in molecular biology, molecular genetics, molecular neurobiology, Xenopus expression systems, bio-chemical and genetic characterization in transgenic animals are encouraged to apply to:

George R. Uhl, M.D., Ph.D.
Laboratory of Molecular Neurobiology

Molecular Biology Branch

Bethesda, MD 21224

The NIDA is an Equal Opportunity/Affirmative Action Employer, M/F/H/V. ADAMHA is smoke-free.

ASSISTANT RESEARCH SCIENTIST/POSTDOCTORAL FELLOWS

Senior and junior positions available. Positions are limited by mechanisms used by normal and neoplastic cells during transendothelial cell migration (e.g., J. Clin. Invest. 83, 122 (1989); N. Engl. J. Med. 320, 1249, 178 (1989); 254, 99 (1991)). Strong background in endothelial cell-extracellular matrix biology/molecular biology is required. Applicants should have a B.S. or M.S. (or equivalent) in Biology, Biochemistry, Cell Biology, or Molecular Biology. The successful applicant will work in the Laboratory of Dr. Alan H. Weiss, pediatric hematology/oncology, at the University of Pennsylvania. The successful applicant will be expected to coordinate and supervise the activities of technicians as well as undergraduate and graduate students. Send curriculum vitae and three letters of reference to: Dr. Stephen J. Weiss, Upjohn Professor of Medicine and Cellular Biology, University of Michigan, Department of Internal Medicine, Hematology-Oncology, C570 MSRB II, 1180 West Medical Center Drive, Ann Arbor, MI 48109-0668.

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE

CONDUCT RESEARCH SUPPORTED BY THE NATIONAL INSTITUTE ON DRUG ABUSE. POSITION AVAILABLE: ASSOCIATE RESEARCH SCIENTIST/POSTDOCTORAL FELLOWS. Senior and junior positions available. Positions are limited by mechanisms used by normal and neoplastic cells during transendothelial cell migration (e.g., J. Clin. Invest. 83, 122 (1989); N. Engl. J. Med. 320, 1249, 178 (1989); 254, 99 (1991)). Strong background in endothelial cell-extracellular matrix biology/molecular biology is required. Applicants should have a B.S. or M.S. (or equivalent) in Biology, Biochemistry, Cell Biology, or Molecular Biology. The successful applicant will work in the Laboratory of Dr. Alan H. Weiss, pediatric hematology/oncology, at the University of Pennsylvania. The successful applicant will be expected to coordinate and supervise the activities of technicians as well as undergraduate and graduate students. Send curriculum vitae and three letters of reference to: Dr. Stephen J. Weiss, Upjohn Professor of Medicine and Cellular Biology, University of Michigan, Department of Internal Medicine, Hematology-Oncology, C570 MSRB II, 1180 West Medical Center Drive, Ann Arbor, MI 48109-0668.

ASSISTANT RESEARCH SCIENTIST/POSTDOCTORAL FELLOWS. Senior and junior positions available. Positions are limited by mechanisms used by normal and neoplastic cells during transendothelial cell migration (e.g., J. Clin. Invest. 83, 122 (1989); N. Engl. J. Med. 320, 1249, 178 (1989); 254, 99 (1991)). Strong background in endothelial cell-extracellular matrix biology/molecular biology is required. Applicants should have a B.S. or M.S. (or equivalent) in Biology, Biochemistry, Cell Biology, or Molecular Biology. The successful applicant will work in the Laboratory of Dr. Alan H. Weiss, pediatric hematology/oncology, at the University of Pennsylvania. The successful applicant will be expected to coordinate and supervise the activities of technicians as well as undergraduate and graduate students. Send curriculum vitae and three letters of reference to: Dr. Stephen J. Weiss, Upjohn Professor of Medicine and Cellular Biology, University of Michigan, Department of Internal Medicine, Hematology-Oncology, C570 MSRB II, 1180 West Medical Center Drive, Ann Arbor, MI 48109-0668.

RESEARCH ASSOCIATE. Positions are available for the study of structure/function relationships in single-stranded nucleic acid binding proteins. Systems being studied include the bacteriophage T4 recA translational repressor and eukaryotic RNA polymerase. Approaches being used include in vitro mutagenesis, synthetic peptide analogues, and a variety of biophysical techniques including: fluorescence quenching, CD, pulse carbohydrate melting, cryo-electrophoresis, and NMR. Applicants should submit curriculum vitae and three letters of reference to: Dr. Alan H. Weiss, Department of Pediatrics, Children's Hospital Medical Center, Case Western Reserve University, Cleveland, OH 44106. Salary: Competitive. Send applications to: Dr. Alan H. Weiss, Department of Pediatrics, Children's Hospital Medical Center, Case Western Reserve University, Cleveland, OH 44106.
IMMUNOCHEMIST

Sigma Chemical Company develops, manufactures and distributes biochemicals and diagnostic reagents worldwide. Sigma immunochemicals, a group within the research division, develops and manufactures research immunological products including antibody conjugates and purified proteins.

The Department of Biotechnology has two immediate openings in its department.

PROTEIN CHEMIST/FLOW CYTOMETRY

Immunochemist very experienced in flow cytometry to develop, fluorophore protein conjugates, new fluorophores, and applications data for analytical cytology products.

IMMUNOCHEMIST

Immunochemists experienced in the development of immunosassays; immunoassays, monoclonal antibody purification and modification, cell and tissue immunostaining to lead a program developing innovative new immunoaasay techniques.

The minimum qualifications for both positions are a B.S. or M.S. in a biological science with 5 years experience in the relevant areas or a Ph.D. in immunology or biochemistry with 2-3 years relevant experience.

The successful candidate will be highly innovative, have excellent communication skills and be a highly motivated team player.

Sigma Chemical Company offers a competitive salary as well as full company paid benefits including relocation expenses. For consideration send your resume to: Personnel Manager, Position TS, Sigma Chemical Company, P.O. Box 14608, St. Louis MO 63178. An Equal Opportunity Employer.

SIGMA CHEMICAL COMPANY

We're Meeting The Challenge Of The 1990's with Quality

RESEARCH OPPORTUNITIES IN BIOTECHNOLOGY

The Department of Biotechnology is seeking applicants for our ongoing program of crop improvement. Pioneer offers competitive salaries, excellent facilities and a highly cooperative research environment. Successful candidates will be expected to interact extensively with ongoing programs in transformation, gene expression, gene isolation or RFLP programs.

POST-DOCTORAL RESEARCH ASSOCIATE (JOB #0309) - A post-doctoral position is immediately available in the area of synthesis and structure-function of biologically active peptides. Education/Experience: Ph.D. or equivalent related work experience in biochemistry/biophysics, with experience in peptide synthesis and a special emphasis on the theoretical and practical aspects of knowledge-based aminoo acid substitutions on peptide structure-function. Candidates should also be familiar with the use of computer programs routinely used in protein structure analysis.

RESEARCH ASSOCIATE, PROTEIN BIOCHEMISTRY (JOB #1356) - A research associate position is immediately available in protein biochemistry with special emphasis in the area of peptide synthesis and characterization. Education/Experience: BS degree or equivalent in biochemistry or organic chemistry plus 3 years directly related lab experience including 1 year of lab experience in the biochemical characterization of proteins with chromatographic and electrophoretic techniques. Experience in peptide chemistry is preferred.

RESEARCH ASSOCIATE, MAIZE GENETICS (JOB #2251) - A resourceful, independent individual is being sought for a research associate position to help plan and conduct experiments involved in identifying and cloning agronomically significant genes in maize. Education/Experience: BS degree or equivalent plus 3 years directly related lab experience or MS degree. Applicants should also have experience with gene cloning techniques and molecular biology techniques (with maize is preferable). Please note: Application Deadline for JOB #2251 is November 15, 1991.

Applications received by December 1, 1991 (except where otherwise noted) will be assured of consideration. However, applications will be considered until the positions are filled.

Pioneer Hi-Bred International, Inc. is an Equal Opportunity/Affirmative Action employer. Please send resume indicating the JOB # and the names, addresses and telephone numbers of three references to:

PIONEER HI-BRED INTERNATIONAL, INC.
Plant Breeding Division
Department of Biotechnology Research
Attn: Amy LaMotte
P.O. Box 1004
Johnston, IA 50131-1004

Neurogenetic Corporation

Neurogenetic Corporation is a pharmaceutical company using promising new approaches in a program of drug discovery. Current expansion of our Neuroscience Program has created opportunities for Ph.D. scientists with a minimum of 2 years postdoctoral experience in the following areas:

Neuroanatomist/In Situ Hybridization

Histochemist:

This position provides an opportunity for a scientist skilled in the in situ use of both oligo and ribonucleotide probes to further the understanding of neurotransmitter localization and function. Candidates must have proven expertise in mammalian neuroanatomy. Additional experience in human neuroanatomy, functional neuroanatomy, and chemical neuroanatomy is extremely desirable. The successful applicant will become a member of our receptor localization team utilizing both receptor radioligand and in situ hybridization techniques to explore the distribution and function of neurotransmitter receptors. (Dept. 118)

Biochemical Pharmacist:

Candidates should have a strong background in both receptor binding and second messenger assays including computer assisted data analysis. The successful applicant will become part of our receptor discovery and characterization team using heterologous expression systems to explore receptor properties, function, and drug action. (Dept. 119)

Peptide Receptor Pharmacologist

Candidates should have experience with receptor binding assays using peptide radioligands and expertise in computerized data analysis. Familiarity with robotic systems for binding assays, cell culture techniques, and peptide receptor autoradiography are desired. Industrial experience preferred. (Dept. 120)

Peptide Receptor Signal Transduction

Pharmacologist

Candidates for this position should have a strong background in second messenger assay systems particularly with respect to peptide receptors. Practical experience with PI turnover and adenylate/guanylate cyclase assays in cell lines is desirable. Industrial experience preferred. (Dept. 121)

Neurogenetic Corporation is an equal opportunity employer located in the New York City metropolitan area. We offer a competitive salary and benefits package, including relocation expenses.

Please include department code with application. For consideration, please submit your curriculum vitae, and three references to:

Human Resources Manager
Neurogenetic Corporation
215 College Road
Paramus, NJ 07652
POSTDOCTORAL RESEARCH OPPORTUNITIES IN INDIA. Research fellowships in India will be awarded through U.S. Agency for International Development program to U.S. citizen under 40 in 1992. Priority areas of research include: atmospheric/environmental science; computer science, electronics, technology; computer software, electronics, forestry, geology, marine science, materials science, microelectronics, oceanography, physics, solid state electronics, water resources, and other appropriate fields. For application and proposal guidelines, contact: Jeanine M. Daniels, Academy for Educational Development, 1205 23rd Street, N.W., Washington, DC 20037.

RESEARCH ASSOCIATE VOLTAGE-DEPENDENT CHANNELS OF VERTEBRATE NEURONS SUNY AT STONY BROOK

POSTDOCTORAL POSITION available to study synaptic transmission, active membrane properties and calcium dynamics in bullfrog sympathetic ganglion cells. PC12 cells, rat hippocampus and cat lateral geniculate. Techniques include single electrode voltage clamp, patch clamping, confocal microscopy, 3D reconstruction and high speed imaging.

Send letters, curriculum vitae, and three references to: Dr. Paul Adams, Department of Neurobiology and Behavior, Cell and Molecular Neurobiology, School of Medicine, Stony Brook, NY 11794-5230. An Equal Opportunity Employer.

RESEARCH ASSOCIATE (CHEMIST). Research and develop methodologies to investigate chemical and physical effects of oxidant air pollutants on phospholipids of lung lavage, lung lavage in vitro, and lung lavage of rats treated with chronic and acute inhalation exposure. Salary: $31,000 per year. Fourteen hours per week. Job site/interview: Fullerton, California. Send resume to: Jos. W.16394, P.O. Box 9560, Sacramento, CA 95828–0560 no later than 16 November 1991.

RESEARCH ASSOCIATE, Penn State University. The Molecule and Cell Biology Department of the Eberly College of Science, The Pennsylvania State University, University Park, Pennsylvania invites applications for a research associate position in animal cell cycle biochemistry. Applications are invited from candidates with proven ability to conduct and publish research in the area of mitosis-specific protein kinases and phosphatases. A Ph.D. in biochemistry and 1 year postdoctoral research is required. Knowledge of recombinant DNA techniques, cell cycle/cellular cloning, cell cycle-directed mutagenesis, and DNA sequencing is required. Experience is required in protein biochemistry which should include isolation, purification, phosphoprotein analyses, immunoprecipitation, and Western blot analyses. Experience in tissue culture techniques such as DNA transfections, cellular cloning, and cell cycle manipulations is essential. Familiarity with computers is desirable. Salary range: $28,000 to $30,000 per year, plus standard university benefits package. Send letter of application and resume, by 1 December 1991, to: Dr. Robert A. Schlegel, Chairman, Molecular and Cell Biology Department, Box SM, The Pennsylvania State University, University Park, PA 16802. An Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged.

UNIVERSITY OF CALIFORNIA LOS ANGELES (UCLA) SCHOOL OF MEDICINE (S.R. BIOLOGIST) SENIOR RESEARCH ASSOCIATE

Position available for Ph.D. interested in studying molecular mechanisms of cytokine regulation, gene transduction and cancer immunotherapy. UCLA and to its affiliated institutions are Equal Opportunity and Affirmative Action employes. For consideration please submit curriculum vitae and two letters of reference to: Ariz Beldeggun, M.D., UCLA School of Medicine Center for the Health Sciences Room 640, 10833 Le Conte Avenue Los Angeles, CA 90024–1738 Telephone: 213-206-1434

POSTDOCTORAL RESEARCH OPPORTUNITY IN IMMUNOLOGY. Position available for Ph.D. to join and aid in the direction of an active hematopoiesis program. Laboratory studies include assessment of the effects of growth factors and antibodies to growth factor receptors in the marine system. Laboratory support and available support in the new West Pennsylvania Research Foundation Building. Direct inquiries to: Richard K. Shadduck, M.D., Director, Western Pennsylvania Cancer Institute 4800 Friendship Avenue Pittsburgh, PA 15224

UNIVERSITY OF CALIFORNIA LOS ANGELES (UCLA) ASSISTANT RESEARCH IMMUNOLOGIST

Immediate opening for assistant research immunologist to perform research on the methodology of microcytotoxicity testing of vascular endothelial cells (VEC) and anti-VEC antibodies in transplant patients. Additional research to be performed on antiplatelet and anti-HLA antibodies in clinical kidney transplants using thrombocytotoxicity and MAIPA testing. Ph.D. or M.D. with minimum of 3 years of experience in HLA, VEC and platelet serology and in molecular biology/genetics preferred. Basic knowledge of immunohistochemistry and clinical immunology required. Salary: $33,000 per year. Forty hours per week, Job site/interview: Fullerton, California. Send curriculum vitae, statement of research interests and names of three references to: Paul I. Terasaki, Ph.D., UCLA Tissue Typing Laboratory, 4800 Vasey Avenue, Los Angeles, CA 90024–1652. UCLA is an Equal Opportunity/Affirmative Action Employer.

CARNegie MELLON UNIVERSITY

GRADUATE STUDY IN ENGINEERING AND PUBLIC POLICY (EPP). The EPP Graduate Program leads to a research-based Ph.D. specializing in policy issues in areas of materials science and engineering, computer and data systems, and other relevant topics. Salaries range from $10,000 to $12,000 with 12 month appointments. Send your curriculum vitae to: Graduate Admissions, Carnegie Mellon University, Pittsburgh, PA 15213.

An ESTUARINE ECOLOGIST/BIOLOGICAL OCEANOGRAPHER, PH.D. AND MARINE BIOLOGIST, M.S. Environmental consulting firm seeking research scientist for its marine biology, fish, and wildlife studies. Experience in marine invertebrates, estuarine and nearshore areas is required. Ph.D. in marine biology or related field is preferred. Excellent career opportunity. Send curriculum vitae and salary requirements to: Personnel Manager; Stantec Consulting, P.O. Box 455; Santa Rosa, CA 95402.

The University of Arizona invites applications from qualified individuals for an appointment as a POSTDOCTORAL RESEARCH ASSOCIATE IN IMMUNOLOGY with a focus on the development of new immunological assays for diagnostic and therapeutic applications. The position is supported by the National Institutes of Health and carries a salary of $21,000 per year. The successful candidate will be joining a dynamic group of scientists and clinicians working in the area of immune system disorders. The position is available immediately and will remain open until filled. Send curriculum vitae, a complete bibliography, and three letters of recommendation to: Dr. L.J. Barrett, Department of Dermatology, University of Arizona, Tucson, AZ 85724. Deadline for applications is November 15, 1990. The University of Arizona is an Equal Opportunity, Affirmative Action Employer. Applications from qualified women and minorities are encouraged.

RESEARCH GENETICIST (PLANTS), GS/GM-440 to 12/13/91. Permanent full-time, USDA, ARS Plant Genetics Research Unit, Columbus, Missouri. Research focus is on genetic mechanisms, molecular genetics, and cell biology of maize (Zea mays L.) and other species, where pertinent to maize biology and improvement. Laboratory and field facilities are available. Studies on the fundamental organization, functioning, and interactions of genes and chromosomes; on nucleic acids, enzymes, and other proteins; and on signal or regulatory interactions in cells are encouraged. Experience with molecular techniques; knowledge of gene function; and experience in plant biology are essential. Salary range: $33,000–$47,000 per year, plus benefits. Salary is negotiable. Send curriculum vitae and three letters of recommendation by 12/13/91 to: Dr. J. Coe, Director, USDA-ARS Plant Genetics Research Unit, P.O. Box 8615, Columbus, MO 68901. USDA is an equal opportunity employer.

NATIONAL INSTITUTES OF HEALTH IMMUNOLOGIST WITH ADJUNCT EXPERIENCE

The National Institute of Allergy and Infectious Diseases, Division of AIDS, Vaccine Research and Development Branch, is accepting applications for an immunologist (Ph.D. or M.D.) to administer and develop programs that facilitate the development of novel adjuvants to enhance the systemic and mucosal immunogenicity of DNA vaccines. This work will be carried out in the Preclinical Development Section of the Vaccine R&D Branch, participating in the design and evaluation of preclinical animal studies operated by the Vaccine R&D Branch and, act as a liaison between the AIDS Vaccine Clinical Trials Network, the FDA, and the private sector in design and conduct of human studies for advanced AIDS vaccines. Applicants should send curriculum vitae or Application for Federal Employment (SF 171) to: Dr. Alan Schutz, Division of AIDS/NIAID, 6000 Executive Boulevard, Room 1A29, Bethesda, MD 20892. Telephone: 301-496-8200, FAX: 301-402-1506. U.S. citizen required. An Equal Opportunity Employer.

RESEARCH SCIENTIST

Lead research program on more efficient breeding methods for hybrid corn. Study use of molecular markers in evaluating inbred lines, with attention to improving elite lines using base broad germplasm. Develop quantitative genetic and population genetic theory/methods for choosing crossing parents. Study use of incomplete block designs and trend analysis in yield trials. Emphasis placed on artificial inoculation and testing resistance of germplasm to leaf and stalk diseases. Provide statistical consultation to other researchers in the company. Write special computer programs for corn breeding research. Develop screening methods for stress tolerance and 6 months direct experience or 1 year as a research assistant (related experience must have included artificial inoculation and testing resistance of germplasm to leaf and stalk diseases). Ph.D. thesis must be in the use of broad base germplasm to improve elite corn hybrids. One graduate course in each of the following: quantitative genetics, population genetics and statistics. Experience of 4 years or 3 years as a research assistant employing statistical methods. $34,000 to $47,000 per year. 40 week, 8:00 a.m. to 5:00 p.m., to overtime, Monday thru Friday. Must have proof of legal authority to work permanently in the United States. Send résumé to: Illinois Department of Employment Security, 7701 S. Pulaski Rd., Chicago, IL 60655. At: Attention: Maxine Counts. Ref. #V-IL 3454C. No calls. An employer-paid ad.

United States Department of Agriculture

RESEARCH GENETICIST (PLANTS), GS/GM-440 to 12/13/91. Permanent full-time, USDA, ARS Plant Genetics Research Unit, Columbus, Missouri. Research focus is on genetic mechanisms, molecular genetics, and cell biology of maize (Zea mays L.) and other species, where pertinent to maize biology and improvement. Laboratory and field facilities are available. Studies on the fundamental organization, functioning, and interactions of genes and chromosomes; on nucleic acids, enzymes, and other proteins; and on signal or regulatory interactions in cells are encouraged. Experience with molecular techniques; knowledge of gene function; and experience in plant biology are essential. Salary range: $33,000–$47,000 per year, plus benefits. Salary is negotiable. Send curriculum vitae and three letters of recommendation by 12/13/91 to: Dr. J. Coe, Director, USDA-ARS Plant Genetics Research Unit, P.O. Box 8615, Columbus, MO 68901. USDA is an equal opportunity employer.

SCIENCE, VOL. 254
RESEARCH ASSOCIATE  
ANALYTICAL BIOCHEMISTRY

Amgen, an innovative leader in the development of human therapeutic products through applications of biotechnology, has an immediate opportunity for a Research Associate in our Analytical Biochemistry Group.

Responsibilities for this position will include contributing to ongoing programs for the development of physical methodologies for protein characterization including spectrophotometric methods and analytical ultra-centrifugation. Candidates for this position must have a BS or MS in Chemistry, Biochemistry or a related discipline and a minimum of two years relevant experience in the characterization of peptides and proteins. Candidates should be familiar with general methods for the separation and analysis of proteins. Experience in computerized data analysis, HPLC, and Spectroscopic methods is highly desirable.

Amgen offers a stimulating and challenging research environment on the cutting edge of the biotechnology industry as well as an excellent compensation and benefits package. If you have the necessary skills and qualifications and would like to be a part of an organization that places a high priority on its human resources, please send a resume, in confidence, to:

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RESEARCH OPPORTUNITY FOR MEDICAL STUDENTS

HHMI-NIH RESEARCH SCHOLARS PROGRAM (CLOISTER PROGRAM)

The Howard Hughes Medical Institute (HHMI) and the National Institutes of Health (NIH) announce that applications are being accepted for the 1992-93 class of Research Scholars.

This HHMI-NIH joint program provides an opportunity for U.S. medical students to spend a year in laboratory research at the NIH in Bethesda, Maryland. Scholars select from more than 1,000 laboratories at the NIH and work with leading scientists on basic science research projects.

Scholars are employees of HHMI and are housed at The Cloister, a residence on the NIH campus. The annual salary is $16,800, plus fringe benefits.

Applicant must be a U.S. citizen or permanent resident attending a medical school in the United States or Puerto Rico and must not be enrolled in an M.D.-Ph.D. program.

Deadline for applications is January 10, 1992. Students will be notified of results by April 1, 1992. The program year will begin in the summer of 1992.

Brochures and application kits are available in the student affairs office of medical schools; they may also be obtained by writing or calling:

Howard Hughes Medical Institute
One Cloister Court
Bethesda, MD 20814-1460
Telephone: (301)951-6710 or (800)424-9924

The Howard Hughes Medical Institute, an Equal Opportunity Employer, welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.
ASSOCIATE RESEARCH SCIENTIST

Non-tenure-track position available in the Department of Physical Biophysics. Applicant must have M.D. or Ph.D. and at least 3 years of experience in primary neuronal tissue culture, whole cell patch recording, and optical recording techniques. Applicant will conduct experiments with either X-radiation or MR imaging on intracellular calcium. Please send letter and full curriculum vitae to: Dr. Amy MacDermott, Department of Physiology and Cellular Biophysics, Columbia University, 730 West 168th Street, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.

PHYSICIST

Physicist position in Newport News, Virginia; 40 hours per week; 8:00 a.m. to 5:00 p.m.; $57,600 to $58,000 per year. The incumbent will be responsible for the design, construction, and operation of the radio frequency (RF) feedback control for the CEBAF continuous wave, superconducting electron accelerator; will develop RF control circuits for the 338 superconducting structures, the normal conducting chopper, buncher, and capture section which meet the stringent requirements for RF control; and will ensure that work stays in time scheduled with other ongoing construction activities.

Requirements: Ph.D. in physics with at least 5 years of experience in design, evaluation, and commissioning of RF control systems for high power superconducting, continuous beam accelerators. Demonstrated experience with vector modulators as decoupling element for amplitude and phase loop in connection with superconducting accelerating structure. Prior experience using slow tuning systems to reduce power requirements. Must have evaluated RF control system under real beam conditions. Demonstrated ability to measure RF properties of niobium cavities of 2 K. Knowledge of beam diagnostic systems such as beam position and current monitors. Experience with control system design must include the integration of a 2-K helium cooling system. Extensive knowledge of data acquisition systems and data analysis is required.

To apply, mail or hand carry résumé with copy of ad attachment to: Mrs. Nancy Blankenstein, PSC, 4400 Fifth Ave., Fifth Avenue at 63rd Street, New York, NY 10017, in care of Equal Opportunity Employer.

An Equal Opportunity Employer, M/F/H/V.

RESEARCH BIOLOGIST, position, Bronx, New York. The duties consist of conducting experiments related to neural control and genesis of respiration and performing animal (cat) surgery, electrophysiological recordings (neurons, microelectrode signals), computer assisted image analysis and writing of scientific papers. At least 2 years of previous experience in respiratory physiology and neurephysiology using nerve fiber and neuromuscular techniques is required. Fourty hours per week. Salary: $35,000 per year. Send a résumé or letter in duplicate describing qualifications to attention of: F.R. #506, Room 501, One Main Street, Brooklyn, NY 11201. Equal Opportunity Employer.


Circle No. 104 on Readers' Service Card

SCIENTISTS

Miles Incorporated, Cutter Biological, located close to Raleigh, North Carolina, is a world leader in the human plasma fractionation industry. The Department of Plasma Manufacturing Technology is a newly created department which seeks to apply modern techniques in biology to the large-scale production and characterization of plasma proteins of therapeutic value. The following opportunities exist for both Ph.D. and M.S. candidates.

RESEARCH SCIENTIST: A recent Ph.D. with two or more years of postdoctoral experience and a broad knowledge of protein purification and characterization, particularly immunological chemistry, is required to develop an interactive research program focusing on immunoglobulins. This position will involve establishing scientific collaboration within Miles and academic institutions. Reference Job #CL92-02.

Senior Associate Research Scientists: M.S. with at least 2 years of experience in biochemistry or a related subject is required to join a multidisciplinary group. The incumbents will be involved with both bench and pilot scale purification and characterization of proteins. A strong working knowledge of protein purification techniques is required. Reference Jobs #CL92-01.

Send summary to Personnel Manager, Miles Incorporated, P.O. Box 807, Clayton, NC 27520.

BEAM LINE SCIENTIFIC PROGRAMMER

A position with the Howard Hughes Medical Institute (HHMI) is available for a scientific programmer at the Hughes Synchrotron Resource. This facility comprises two beam lines (X4 A and X4 C) constructed expressly for macromolecular crystallography at the National Synchrotron Light Source (NSLS) at Brookhaven National Laboratory.

The instrumentation at X4 A and X4 C is controlled by a Unix-based Concurrent MC6600 computer system. A suite of programs interfaces the chromators, diffractometers, and detectors, with control of x-ray beam, crystallography, and real-time data collection. The primary responsibility is to provide a stable interface of computer automation with the users and operations control that is accessible to both optics, goniometers, point detectors, and area detectors. To qualify, you must have a B.A. or B.S. degree. Advanced training up to a Ph.D. degree is preferred. Experience in interactive graphics, computer programming, notably FORTRAN or C, is fundamental, and proficiency in crystallography or other physical sciences is highly desirable. Position title and salary will depend on training and experience.

To apply, please send your curriculum vitae to: Mrs. Jean G. Smith, HHMI Synchrotron Resource, NSLS-X4, Building 725, Brookhaven National Laboratory, Upton, NY 11973-5000. HHMI is an Equal Opportunity Employer.
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