PERSONNEL PLACEMENT

26 JANUARY 1990

SCIENCE publishes each Friday, except the last Friday of the year, and is mailed on issue date. Personnel advertising is published weekly. The advertiser does not discriminate among applicants on the basis of age, race, color, origin, handicap, or sexual preference. SCIENCE reserves the right, in its discretion, to decline to publish advertisements submitted for publication.

LINE CLASSIFIED ADVERTISEMENTS

DEADLINE: Thursday, 10 a.m., 2 weeks prior to issue date. Advertisements only, in writing.

POLICIES: All classified ads will be edited and typeset according to SCIENCE style guidelines. NO ABBREVIATIONS. Any deadline for applications stated in ad must be at least 2 weeks after date of issue in which ad appears.

CLASSIFICATION: SCIENCE publishes line classified ads under the following headings: Positions Open, Employment Agencies, Fellowships, Situations Wanted, Classified Advertisements, and Marketplace. Advertisers should specify classification desired. However, SCIENCE reserves the right to decline classification requests which it believes may be misleading to readers.

RATES: $141 per line, $410 minimum per week. Line equals 52 characters and spaces. Headings equal 32 characters and spaces per line. No charge for use of blind box number. No agency commission for ads less than 40 lines. No cash discount. Prepayment required for all foreign ads. Purchase orders required for all other advertisers.

EDITORIAL NOTES: To fit 32-character line, structure ad copy on a 52-character line: include any desired heading on 32-characters line, followed by heading, one line of white space between heading and body of ad, and all partial lines (including information, if desired) are counted as full lines. Multiply total number of lines x $41 = approximate cost of ad, per week. (This is an approximate cost only. Allow for variation between estimated lines and actual typeset lines and resulting final cost. Advertisers may negotiate terms and degree of flexibility and/or adjustment. SCIENCE cannot provide proof of cost.

BOXES AND LOGOS: Any 1-column line classified ad can be boxed and/or published with logo. No extra production charge for box or logo. For boxed ads, one line equals 48 characters and spaces, two additional lines equal the cost of ad to allow for top and bottom box rules. Logos are billed according to number of lines needed to accommodate logo.

SITUATIONS WANTED ADS: As a service to AAAS members in good standing, SCIENCE offers free placement of Situations Wanted ads for individuals seeking full-time or part-time employment. A blind box may be used. Ads must be submitted in writing with text of 20 words or less, 90 characters in length. Address or box number, and are limited to two insertions per member in each calendar year. Please enclose $4 for mailing labeling including AAAS membership number when submitting ad.

CANCELLATIONS: Deadline for cancellations is 10 a.m. on the 2nd day of issue. Address ad copy or requests for information to:

SCIENCE Classified Advertising
1333 H Street, NW, Room 940
Washington, DC 20005
Telephone: 202-232-6555
FAX: 202-232-9216

MARKETPLACE AND DISPLAY PERSONNEL
ADVERTISEMENTS

For rates, deadlines, and other information about fractional display ads (1/3 page and larger) and all marketplace listings of available products and services, contact:

Schrage Associates, Inc.
1515 Broadway
New York, NY 10036
Telephone: 212-730-1050
FAX: 212-362-3725

RESPONSES TO EMPLOYMENT ADS

Applications and other communications Open ads carefully in order to submit all required materials, and respond, and should especially check for any stated deadline for receipt. SCIENCE encourages applicants for positions to investigate employment law guidelines, nondiscrimination policies, visa requirements, and current differences in the country advertising for employees.

To reply to a blind box ad, address correspondence to:

SCIENCE Classified Advertising
1333 H Street, NW, Room 940
Washington, DC 20005

PERSONNEL PLACEMENT

POSITIONS OPEN

ANATOMIST POSITION
ASSOCIATE/ASSOCIATE PROFESSOR
TENURE TRACK (Fall 1990)

Doctorate in human/animal (mammalian) anatomy, with strong emphasis in developmental biology and/or endocrinology, to teach courses in human anatomy, developmental biology, physiology, and/or endocrinology. Strong commitment to teaching required; experience preferred. We seek a broadly trained investigator who is capable of independent research program and directing master's and undergraduate students in the above areas. Mankato State University (department Chair: St. Paul) with its modern facilities provides an excellent opportunity for professional growth. All applicants must be able to demonstrate capability and interest in the United States and have demonstrated ability to communicate effectively with students and colleagues. Submit application including statement of teaching and research interests, curriculum vitae, official undergraduate and graduate transcripts, and three letters of reference to: Dr. William Besler, Chair, Department of Biological Sciences, Box 34, Mankato State University, Mankato, MN 56002. Application deadline is 23 March 1990 or until filled. Mankato State University is an Equal Opportunity/Affirmative Action Employer and Educator.

ANATOMY AND NEUROSCIENCES

Department of Anatomy-Neurosciences at University of Texas Medical Branch at Galveston, Texas (UTMB), has a tenure-track position available in development of the nervous system with minimum of 2 years of postdoctoral experience and teaching experience in gross anatomy. Applicant should have an active and ongoing research program in modern neuroscience. Will be expected to teach gross anatomy. Please submit curriculum vitae and personal statement detailing research interests and teaching experience, including the names of three references, to: Gwen V. Childs, Ph.D., Chairperson, Search Committee, UTMB, Department of Anatomy-Neurosciences, Sealy-Smith Building, 200 University Boulevard, Room 724, Route H-43, Galveston, TX 77550. Application deadline: 1 April 1990; position filled by: 1 August 1990. UTMB is an Equal Opportunity/HHFA Affirmative Action Employer. UTMB hires only individuals authorized to work in the United States.

ASSISTANT PROFESSOR
BIOLOGY DEPARTMENT
WILLIAMS COLLEGE

Tenure-track position beginning July 1990 for a broadly trained BIOLOGIST with strong interests in both theoretical and experimental work. Salary and academic rank to be determined; position is potentially renewable. Applicants should have postdoctoral experience, have published at least one paper, and be capable of teaching basic and more advanced level courses in molecular biology. Salary to be commensurate with experience. Applicants should submit curriculum vitae and full list of publications prior to 1 February 1990. Williams College is committed to a diverse faculty and to actively recruiting women and minority candidates.

ASSISTANT PROFESSOR
MATERNAL-FETAL MEDICINE

The University of Alabama at Birmingham (UAB), Department of Obstetrics and Gynecology, is seeking to fill a faculty position. Candidate must be Board-eligible or Board-certified in Obstetrics and Gynecology and have research indicating the endocrinology of pregnancy, fetal lung maturation, collaboration with basic scientists in those areas as well as some research directed toward the pathogenesis of premature rupture of the membranes and premature labor. Interested individuals should submit CV by 18 February 1990 to: John C. Hauth, M.D., Professor and Division Director, Division of Maternal-Fetal Medicine, Department of Obstetrics and Gynecology, UAB Station, Birmingham, AL 35294. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

APPLIED BIOLOGISTS

Applied scientists sought, B.S., M.S., Ph.D., for environmental analysis and permitting. Preferred training and/or experience in southeast Florida. Surveillance of wetlands, enforcement of environmental laws, expertise sought in botany, wildlife, wetlands, CAD, GIS, water quality and statistics. Send résumé to: Personnel Department, Besbreld Inc. and Associates, Inc., 3412 Forsyth Road, Orlando, FL 32807. An Equal Opportunity Employer.

ASSISTANT PROFESSOR

Biochemistry to conduct research on the molecular aspects of alcohol dependence, in particular, the effect of ethanol on signal transduction systems and enzymes associated with alcoholism; isolation and characterization of enzymes from human tissues or cultured cells; supervision of Ph.D. in chemistry or biochemistry and at least 4 years of postdoctoral experience in the use and application of spectroscopic methods in the biomedical sciences. Salary: $41,000 per annum. Please send résumé to: Massachusetts Department of Employment and Training, Special Program Department, 19 Stanaford Street, Boston, MA 02114, and refer to job reference #0189.

ASSISTANT PROFESSOR

EPIDEMIOLOGY OF INFECTIOUS DISEASES

Yale University School of Medicine, Department of Epidemiology and Public Health, invites applications for full-time faculty positions in the area of Epidemiology of Infectious Diseases in the Yale Arbovirus Research Unit, available 1 July 1990. Candidates should have postdoctoral experience in applied epidemiology, preferably in the area of vector-borne disease epidemiology, and demonstrated potential to obtain research support. The appointee will be expected to interact with other members of the arbovirus unit, to participate in national reference center activities, and to teach and direct the research of graduate students. Send curriculum vitae, a summary of research interests, and names of three references to: Dr. Robert E. Shope, Department of Epidemiology and Public Health, Yale University School of Medicine, Box 3333, New Haven, CT 06510. Yale University is an Equal Opportunity/Affirmative Action Employer.

EAST TENNESSEE STATE UNIVERSITY

ASSISTANT PROFESSOR in Department of Microbiology for Ph.D. molecular biologist. Research experience and applications in regulation of gene expression required. Department strengths: cytokines, regulation of cell function, regulation of viral genes, and microbial pathogenesis. Applicants must apply molecular biology techniques to one or more of these areas, must establish/ maintain independent research program, and teach medical and graduate students. Non-tenure-track position. Competitive salary, start-up funds, and the opportunity to pursue an academic career. Send curriculum vitae, statement of research interests, and three reference letters to: Dwight W. Lambe, Jr., Ph.D., Department of Microbiology, Quillen College of Medicine, East Tennessee State University (ETSU), Box 19,870A, Johnson City, TN 37614. ETSU is an Equal Opportunity/Affirmative Action Employer.

YALE UNIVERSITY/PETROLOGY

The Department of Geology and Geophysics invites applications for an ASSISTANT PROFESSOR position in the area of metamorphic/igneous petrology. We are particularly interested in field-based studies of regional-scale processes. Research areas may include, but are not restricted to, the evolution of orogenic belts, fluid and heat flow during orogenesis, tectonic processes such as orogenie events. We are interested in candidates with experience in one or more of the fields, including studies on the history and evolution of metamorphic and igneous rocks, and the chronology of orogenetic events. The appointment will complement existing programs in stable isotope geochemistry, kinetics of geochemical reactions, tectonics of convergent margins, and processes of granitic magmatism.

Applicants should submit a letter of application, curriculum vitae, publications, and the names and addresses of at least three references to: Dr. Barry Saltzman, Department of Geology and Geophysics, Yale University, P.O. Box 6666, New Haven, CT 06520. Completed applications must be received by 1 April 1990.

Yale University is an Equal Opportunity/Affirmative Action Employer.
ASSISTANT PROFESSOR OF MICROBIOLOGY

Applications are invited for a 12-month tenure-track position in the Department of Pathobiology at the University of Pennsylvania, School of Veterinary Medicine. The appointment will be made in the full-time academic year 1991-92. The successful candidate will be expected to have expertise in and conduct research in one or more of the following areas: bacterial, fungal, or viral pathogenesis. Teaching responsibilities will involve participation in a team-taught core microbiology course for veterinary students. In addition, the candidate will have the opportunity to participate in the graduate education program administered by the combined biomedical faculty of the University of Pennsylvania. Applicants must have a Ph.D., D.V.M., or M.D. degree and should have a demonstrated record of research productivity as well as a strong potential to develop an externally funded research program. Applications reviewed as of 1 March 1990 and thereafter until the position is filled. Please send curriculum vitae, a statement of research interests, and the names, addresses, and telephone numbers of three referees to: Dr. Neal hospitalized, Chairman, Microbiology Search Committee, Department of Pathobiology, University of Pennsylvania, School of Veterinary Medicine, 3840 Sproul Street, Philadelphia, PA 19104. An Equal Opportunity/Affirmative Action Employer.

ASSOCIATE OR FULL PROFESSOR DEPARTMENT OF GEOGRAPHY

Applications are invited for the position of associate or full professor in the Department of Geography, College of Natural Resources, Utah State University. Consideration is given to candidates with a Ph.D. in geography or closely related fields and an established record of scholarship in remote sensing and GIS with applications in natural resources. The successful candidate will be expected to help develop a multidisciplinary institute (center) for remote sensing and GIS, assist in the development of graduate and research programs in geography, and teach remote sensing/GIS courses. The candidate is expected to have experience in administration, extension experience related to land management agencies, and a willingness to engage in international cooperative efforts. Interested individu- als are requested to send curriculum vitae and names of four referees to: Cliff Craig, Chair of the Search Committee, Department of Geography, Utah State University, Logan, Utah 84322-5240. Application deadline is 1 April 1990 or until a suitable candidate is found. Utah State University is an Affirmative Action/Equal Opportunity and IRB Employer.

A professionally rewarding SENIOR STAFF position exists for an established, BASIC BIOMEDICAL SCIENTIST studying mammalian systems using modern cellular and molecular techniques, in the expanding Medical College of Georgia, College of Veterinary Medicine, University of Georgia, Augusta, Georgia. The appointee will participate in the graduate education program and develop a research laboratory program in cellular and molecular biology. Responsibilities include teaching, student advisement, and research activities. Board-eligible M.D. or D.V.M. degree is preferred. Appointment is open for appointment as of 1 March 1990. Send applications to: Dr. P. L. Hernandez, Chair, Search Committee, Department of Veterinary Preventive Medicine, University of Georgia, Athens, Georgia 30602-8413. An Equal Opportunity/Affirmative Action Institution.

ASSISTANT PROFESSOR IN OBSTETRICS/ GYNECOLOGY

Tenure track. Minimum Ph.D. or M.D. degree required. Research emphasis in endocrinology preferred. Will be expected to develop an externally supported independent research program, and contribute to ongoing efforts in research in the endocrinology research unit. Fundamental morphological and biochemical skills are desirable. Experience in teaching and research is required. Applications must be received by 1 March 1990. The University of Missouri, College of Medicine, Department of Obstetrics and Gynecology, 714 East 12th Street, Columbia, Missouri 65212. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT OR ASSOCIATE PROFESSOR OF AGRICULTURAL TOXICOLOGY

The College of Agriculture and Life Sciences at the University of Wisconsin-Stevens Point is seeking candidates for a tenure-track faculty position in agricultural toxicology. The successful candidate will be expected to develop a research program in aquatic toxicology and associated environmental research. The position involves teaching aquatic toxicology, pollution ecology, and algology, or a course in zooplankton. The successful candidate will be expected to participate in the graduate education program and develop a research program and laboratory in aquatic toxicology. Candidates must have an earned doctorate with emphasis in aquatic toxicology and strong environmental appreciation for aquatic ecology. The applicant should show evidence of scholarly accomplishments including publications and substantial program development. Applications will be accepted in any form and should be filed in the Office of Personnel and Career Development, University of Wisconsin-Stevens Point, Stevens Point, WI 54481.

ASSISTANT, ASSOCIATE, OR PROFESSOR POSITION. Department of Microbiology, The Mount Sinai School of Medicine, New York, N.Y. Applications will be considered for a strong molecular and cellular background of research experience. Salary range $30,000 to $35,000. Curriculum vitae required. Contact: Peter Antoch, Ph.D., The University of Texas Southwestern Medical Center, Dallas, TX 75335-3058. An Equal Opportunity/Affirmative Action Institution.

INSTRUCTOR/ASSISTANT PROFESSOR. Position open immediately for instructor/assistant professor in the Department of Radiology at The University of Texas Southwestern Medical Center at Dallas. Position involves research with special interest in radiographic research. Application deadline is 1 May 1990. For more information, contact Dr. S. M. Goodell, Medical Research Institute, The Mary Imogene Bassett Hospital, a Columbus University affiliate. Apply to: Dr. S. M. Goodell, Medical Research Institute, The Mary Imogene Bassett Hospital, One Atwell Road, Cooperstown, NY 13326-1394. An Equal Opportunity/Affirmative Action Institution.

BIOENGINEERING Ph.D. to lead in developing new undergraduate program and to conduct research in biotechnology, biocompatible and biodegradable polymeric materials, and bioengineering. Also considering Ph.D. in instruction and educational equipment. Appointment may lead to tenure-track position. Send resume to: Dr. H. McGee, City College of City University of New York, Jamaica, NY 11451. An Equal Opportunity/Affirmative Action Employer, M/F.

COMPARATIVE PHYSIOLOGIST

Connecticut College, Department of Zoology, invites applications for a 2-year non-tenure-track visiting appointment in comparative physiology at the ASSISTANT PROFESSOR level. Visiting faculty teach six courses per year with laboratory or course work. Responsibilities include teaching comparative physiology, vertebrate zoology, invertebrate zoology, and human anatomy. Teaching experience in at least one of these areas is expected. Candidates must have a Ph.D. in biology. Salary is $14,000 per year.

Applications should be received by 1 May 1990. Send resume and three letters of recommendation to: Dr. Robert L. Choate, Chair, Department of Zoology, College of Science at the University of Georgia, Athens, GA 30602. An Equal Opportunity/Affirmative Action Institution.

ASSOCIATE CHIEF OF STAFF RESEARCH AND DEVELOPMENT

The American Lung Association Medical Center (VAMC) seeks a senior associate chief of staff (ACOS) for Research and Development to direct existing University of Washington-affiliated research program with funded projects in psychiatry, sleep research, mineral metabolism, neuroendocrinology, Alzheimer's disease, geriatric care, and oncology. The successful candidate will have oversenior investigator-teams with strong administrative and managerial skills. Applications are invited for a 12-month tenure-track position in the Department of Pathobiology at the University of Washington, Seattle, WA 98109. Equal Opportunity/Affirmative Action Employer.

ASSOCIATE PROFESSOR OF BIOLOGICAL SCIENCE UNIVERSITY OF MICHIGAN

Applications are invited for a full-time tenure-track position at the rank of assistant professor in the Department of Biology at the University of Michigan, Ann Arbor. This position is expected to assist the Department of Biology in its program of graduate education. Responsibilities include teaching, student advisement, and research activities. Board-eligible M.D. or Ph.D. degree is preferred. Appointment is open for appointment as of 1 March 1990. Send applications to: Dr. P. L. Hernandez, Chair, Search Committee, Department of Veterinary Preventive Medicine, University of Georgia, Athens, Georgia 30602-8413. An Equal Opportunity/Affirmative Action Institution.

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A Senior Executive Service Vacancy

ASSOCIATE DIRECTOR

Cancer Prevention Research Program
Division Of Cancer Prevention And Control

Location: Rockville, Maryland

The Associate Director, Cancer Prevention Research Program, will be responsible for the overall planning, coordination and monitoring of a worldwide Cancer Prevention Program designed to provide prompt evaluation of new leads in cancer prevention. The Cancer Prevention Research Program has a staff of approximately 46 who administer a large intramural and extramural program with a budget of approximately $36 million annually.

This is a Civil Service position in the Senior Executive Service (SES) with an annual salary compensation between ES-1 through ES-4 (currently $68,700 to $76,400 per annum). In addition, physicians may be eligible for a Physician’s Comparability Allowance up to $20,000 per year. (Applicants alternatively may be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service.) The individual selected, if not presently in SES, must serve a one-year probationary period.

Applicants must meet the minimum educational requirements for Medical Officer, GS-602. Applicants must further meet established mandatory professional/technical and managerial/executive requirements. Applicants will be further evaluated on the degree to which they possess additional desirable qualifications in the areas of professional/technical qualifications, managerial/executive qualifications, scientific reputation/peer recognition, training and education, and honors and awards. A copy of the requirements may be obtained by contacting Ms. Dolores Guido in the Personnel Management Branch, NCI, at (301) 496-8182.

Applicants must be received by February 2, 1990.

SELECTION FOR THIS POSITION WILL BE BASED SOLELY ON MERIT, WITH NO DISCRIMINATION FOR NON-MERIT REASONS SUCH AS RACE, COLOR, RELIGION, SEX, NATIONAL ORIGIN, POLITICS, MARITAL STATUS, PHYSICAL HANDICAP, AGE, OR MEMBERSHIP OR NON-MEMBERSHIP IN AN EMPLOYEE ORGANIZATION.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

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BIOTECHNOLOGY
RESEARCH AND DEVELOPMENT

Expand your career at Codon, a privately held biotechnology company that develops and manufactures pharmaceutical proteins. We offer a stimulating, intellectual environment and challenging projects. We currently have the following positions available:

PROCESS DEVELOPMENT SCIENTIST
You will be responsible for development and characterization of recovery and purification processes for pharmaceutical proteins derived from recombinant fermentation or cell culture. Requires intimate knowledge of protein chemistry and biochemical separation methods. A Ph.D. in Chemistry/Biochemistry with experience in protein characterization and cGMP desirable.

PROCESS DEVELOPMENT ASSOCIATE
You will participate in downstream process development and biochemical characterization of pharmaceutical proteins. You should possess a BS/MS and preferably 2 years of experience in protein purification/characterization.

ASSOCIATE DIRECTOR
PRODUCT DEVELOPMENT
Working closely with Process Development, Clinical Production and Regulatory Affairs, you will coordinate a number of key tasks toward pharmaceutical protein manufacture. Requires a Ph.D. in (Bio)Chemistry or Biochem. Eng. and a minimum of 4-5 years industrial experience in protein product development. A working knowledge of cGMP is required, and previous exposure to regulatory agencies (FDA/USDA) is desirable.

ASSOCIATE SCIENTIST/ RESEARCH ASSOCIATE
Positions available in our Analytical Development Department for separation and characterization of proteins and other biomolecules. BS/MS with working experience (2 years or more) with HPLC and other relevant methods required.

RESEARCH SCIENTIST
Our Analytical Development Department has a position available for an MS/Ph.D. (Biochem/Immunology) with 3-5 years experience in the development of immunoassays, chemical modification of proteins and production and purification of antibodies. Tissue culture experience is desirable.

To find out how you may fit into any of the available positions above, please send your resume and letter indicating position of interest to: Codon, Human Resources, 213 East Grand Avenue, South San Francisco, CA 94080. We are an equal opportunity employer.

CODON
ASSISTANT PROFESSOR, nontenure-track, in surgery and medical microbiology and immunology, for a Ph.D. or equivalent experience in immunology and tissue culture. Experience in tumor immunology is preferred. Current work focuses on immunology of melanomas with potential for LAK cell therapy. The successful applicant will be expected to obtain extramural laboratory support and participate in resident education. To apply, send curriculum vitae, summary of appropriateness for the position of an associate professor, and names of five references to: D. G. Reynolds, Ph.D., Director of Research, Department of Surgery (Box 16), University of South Florida College of Medicine, Tampa, FL 33610. Application deadline: 15 March 1990. The University of South Florida is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE DEAN FOR ACADEMIC PROGRAMS COLLEGE OF AGRICULTURE IOWA STATE UNIVERSITY Qualifications: an earned doctorate in a discipline associated with agriculture and the biology of the organism with record of teaching and advising excellence. Candidates should submit a letter of application including comments reflecting academic and administrative philosophy, curriculum vitae, and names of five references to: Dr. S. A. Ewing, Chair, College of Agriculture Associate Dean Search Committee, 134 Carver Hall, Iowa State University, Ames, IA 50011. Telephone: 515-294-2160. Application deadline is 15 February 1990 or until position is filled. Affirmative Action/Affirmative Opportunity Employer, Women, Minorities, and members of other protected classes are encouraged to apply.

SCIENTIFIC DIRECTOR NEOTROPICAL BIODIVERSITY PROGRAM NATIONAL MUSEUM OF NATURAL HISTORY (NMNH) SMITHSONIAN INSTITUTION (SI) The National Museum of Natural History seeks a highly qualified individual to plan and direct the museum’s Neotropical Biodiversity Program currently operating in Peru, Bolivia, and Brazil. Candidates having a Ph.D. or equivalent experience in systematic botany or zoology, ecology, or other related field in biology will be considered. Required are evidence of scientific research experience, including work in the tropics, and experience as an administrative manager of a scientific organization or program. Also required is competency in spoken and written Spanish or spoken and written Portuguese. Preference will be given to individuals with evidence of experience in neotropical biodiversity research. The incumbent will function as a highly visible representative of the NMNH and the SI in the field of biodiversity in South and Central America, and the incumbent will interact with governmental and scientific staff at the highest levels in the host countries to develop and foster collaborative relationships. Salary range: GS-14 ($50,342 to $65,444) to GS-15 ($59,216 to $76,982), depending on qualifications.

To apply: send Form SF-171 (Personal Qualifications Statement), curriculum vitae, description of research and career goals, and list of publications (reprints are not requested at this time), and arrange for three reference letters to be sent directly to the address below, all to be received by 1 March 1990. Office of Personnel Administration, Human Resources, P.O. Box 23792, Washington, DC 20026-3752. SI is an Equal Opportunity Employer.

ENVIRONMENTAL SCIENCE AND TECHNOLOGY Tenure-track. Physical science, physical geography, geology, and social science, relationship of physics and biology. Feminist/minority approaches welcome. Contribute to undergraduate interdisciplinary discovery-oriented teaching, assist program in grant propagation. Commitment to team-teaching, including students in research; cooperation in residential learning; Ph.D. required. Research will be conducted in environmental and biospheric areas. Send letter of interest, resume, and three references to: George J. Stein, Interdisciplinary Studies, Miami University, Oxford, OH 45056. Review begins 15 February 1990 or until position is filled. Affirmative Action/Affirmative Opportunity Employer.

DEAN COLLEGE OF LIBERAL ARTS UNIVERSITY OF ARIZONA STATE UNIVERSITY Applications and nominations are invited for the position of dean of the College of Liberal Arts and Sciences at Arizona State University. Applicants will be selected from the pool of department and 6 research centers representing the humanities, social sciences, and natural sciences. The total budget exceeds $40 million; externally funded research expenditures last year exceeded $14 million. The dean reports directly to the provost. Administrative responsibilities include budget and planning, personnel decisions, faculty recruitment, and the promotion and development of institutional programs.

Candidates should have: (i) an academic record that merits appointment as a professor with tenure, (ii) relevant administrative experience preferably in a major research university, (iii) a demonstrated commitment to enhancing diversity of faculty, students, and staff, (iv) a strong commitment to undergraduate and graduate instruction, (v) a demonstrated commitment to excellence in research, and (vi) demonstrated understanding of research, instructional, and service needs of the diverse disciplines throughout the college.

Nominations and applications (including curriculum vitae, a letter of interest including addresses, and phone numbers of three references who are qualified to comment on scholarship, teaching, and administrative ability) should be addressed to: Search Committee, Chair, Search Committee, Dean of Liberal Arts and Sciences Office of the Provost Arizona State University Tempe, AZ 85287-6003 Telephone: 602-965-7279

Application deadline is 15 February 1990. Applications will be reviewed on a biweekly cycle as necessary until the position is filled. Preferred starting date is 1 July 1990, but date is negotiable.

Arizona State University is an Equal Opportunity/Affirmative Action Employer.

EXECUTIVE DIRECTOR CLINICAL AND LABORATORY SAFETY The University of Texas Health Science Center at Houston (UTHSC-H) invites applications for the position of executive director of the Department of Clinical and Laboratory Safety. The department is a component of the University's Office of Scientific Affairs. The director reports directly to this office. The incumbent will be responsible for supervising two operating divisions within the department: Chemical and Biological Safety and Radiation Safety, respectively. These divisions are the “monitoring and effecting” arms of the faculty committees which develop and recommend policies and standards to the executive vice president. Applicants should have formal postgraduate training in a relevant field and a minimum of 5 years of comparable experience; other combinations of education and experience will also be considered. Experience of evidence in the management of a multifaceted safety department, preferably at an academic biomedical research institution, and evidence of active involvement in the safety profession in terms of professional memberships, publications, invited talks, etc., will be very favorable. Send resumes to: Bob G. Davis, Assistant Vice President for Scientific Affairs, The University of Texas Health Science Center at Houston, GS 5116, P.O. Box 20334, Houston, TX 77225.

ELECTRON MICROSCOPIST, RESEARCH ASSISTANT PROFESSOR. The Pittsburgh Cancer Institute (PCI), University of Pittsburgh, seeks an individual with experience in cryo-preservation, cryo-electron microscopy, and cell biology to perform research on cryo-electron microscopy and cryo-preservation. Applicants should have experience in the use of cryo-electron microscopy and experience in preparation and imaging of biological specimens. Send letter of interest, resume, and three references to: Dr. J. Stein, Interdisciplinary Studies, Miami University, Oxford, OH 45056. Review begins 15 February 1990 or until position is filled. Affirmative Action/Affirmative Opportunity Employer.

DIRECTOR OF CONSERVATION SCIENCE PROGRAM World Wildlife Fund (WWF) intends to hire a director of conservation science, who will work closely with and be responsible to the President of WWF and the Board of Trustees, to answer critical problems in conservation science and to influence science policy based on the experience of field-based research. The position will be held by an international membership group, who seeks to work in the fields of biodiversity, abundance, and health of ecological systems. Base Washington, DC. Position requires a Ph.D. and research experience in a field of economic and ecological concern. World Wildlife Fund is an Equal Opportunity Employer. Preferences: Ph.D. and research experience in a field of economic and ecological concern.

DIRECTOR MAGNETIC RESONANCE (MR) RESEARCH The University of Pittsburgh Department of Radiology is seeking a director of MR Research in the Department of Radiology. The candidate must have substantial experience in MR imaging and/or MR spectroscopy with a record of successfully funded translational research. The director will supervise and coordinate MR research activities performed on a variety of mid- and high-field imaging and spectroscopy units, and will be an integral part of the radiology research team. The faculty appointment will be within the Department of Radiology, but joint or secondary appointments are encouraged. The candidate will direct and expand the MR research program with an emphasis on clinical research. Faculty rank is expected to be at the Associate or Full Professor level according to qualifications; salary and fringe benefits are competitive. The University of Pittsburgh is an Affirmative Action Employer.

DEVELOPMENTAL/CELL/ MOLECULAR BIOLOGIST ASSISTANT PROFESSOR. The Department of Zoology invites applications for a tenure-track position in developmental/cell/molecular biology for August 1990. Experience in using contemporary techniques directed toward understanding fundamental issues in cell and/or development biology will be preferred. Search Committee, College of Biological Science, University of Wisconsin-Madison, Department of Zoology, Research Building, 1177 West Johnson Street, Madison, WI 53706. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.

ECOLOGIST/ORNITHOLOGIST. Assistant professor, Ph.D. A tenure-track position begins fall 1990 containing upon funding. Primary duties involve teaching in courses in animal ecology, ornithology, and animal behavior. The successful candidate will be expected to have demonstrated potential to conduct research in one or more of subjects listed above. Search Committee, University of Illinois at Chicago, 810 South Michigan Avenue, Chicago, IL 60607. Send a brief statement of the candidate’s research interests and three letters of recommendation to: Department of Environmental Science, University of Illinois at Chicago, 810 South Michigan Avenue, Chicago, IL 60607. Women and minorities are encouraged to apply.

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INTERDISCIPLINARY SCIENTISTS IN OCEAN & ICE RESEARCH

The Oceanography Group of the Jet Propulsion Laboratory (JPL) of the California Institute of Technology is recruiting scientists to initiate and lead new interdisciplinary research programs for the study of the ocean's role in global environmental changes. The JPL Oceanography Group is already a leader in interdisciplinary research involving the analyses and interpretation of data from a variety of past and present satellite missions. The new positions described below are intended to enhance these strengths and help establish JPL as a center that will play a leading scientific role in studies of the interactions between the many components of the climate and biochemical systems.

Physical Ocean Modeler: To develop and lead research programs directed at developing new techniques for assimilating satellite data and their derived products into numerical models of ocean circulation. This research will enhance ongoing JPL activities aimed at improving our understanding of important climate issues, such as the roles of ocean circulation and air-sea interaction in large-scale oceanic heat transport and sea surface temperature variations, and the influence of the oceans on variations, of CO₂ in the atmosphere.

Biological Ocean Modeler: To develop models of biological processes in the ocean and their coupling with physical processes. Improvements in biological modeling techniques will be required to incorporate satellite data into models to achieve the level of understanding of phytoplankton dynamics necessary to assess its role in the global carbon cycle and the CO₂ problem.

Precipitation and Radiative Forcing of the Ocean: To conduct research directed at how to use satellite data more effectively in computing ocean surface rainfall and radiative flux. These results are needed to improve our understanding of the large-scale thermal and buoyancy forcings of the ocean, and their influence on climate variability.

Polar Ice Research: To conduct research to improve our understanding of how the polar oceans influence large-scale climate conditions. The various presently available satellite-derived data sets, as well as those planned over the coming decade, are expected to expand the research possibilities for these types of studies.

Research scientists ranging from new PhDs to well-established senior researchers are encouraged to apply. For additional information, please call Dr. Lee-Leung Fu, Chairman of the Search Committee, at (818) 354-8167. The deadline for applications is February 26. Send applications with the names and addresses of three references to:

Professional Staffing
Department T-52
Jet Propulsion Laboratory
California Institute of Technology
4800 Oak Grove Drive 249/104
Pasadena, CA 91109
Equal Opportunity Employer M/F/H/V
The Swiss Federal Institute of Technology in Zurich invites applications for the position of a

**Professor for Resources and Waste Management**

The duties of the new professor will include teaching, research and consultancy in the field of environmentally appropriate waste management. The research should be directed to new strategies for the supply, recycling and disposal of material resources, and the technical realization of such proposals. The teaching will be particularly concerned with courses for environmental scientists and environmental engineers.

Candidates must give evidence of academic experience (for instance in chemistry, physical chemistry, chemical and process engineering or other branches of engineering), achievement in the field of environmental research and its application, and of teamwork in cooperation with engineers, natural scientists and economists.

Applications with curriculum vitae and a list of publications should be submitted no later than April 15, 1990, to the President of the ETH Zurich, Prof. Hans Bühlmann, ETH-Zentrum, CH-8092 Zurich.

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**CLINICAL IMMUNOLOGIST**

Outstanding opportunity for a well-trained, highly-motivated clinical investigator to join a team of medical and basic scientists based in an NIH, ASC-supported Human Immunology and Cancer Program, Department of Medicine, University of Tennessee Medical Center at Knoxville (UTMCK). Major responsibilities include active participation in patient care with clinical and research emphasis on B and T-cell autoimmune and neoplastic diseases. The successful candidate will work in well-equipped, state-of-the-art research facilities that include hybridoma/Mab, flow cytometry, protein chemistry, immunochemistry, molecular biology and computer laboratories. BC/BE and eligibility to state licensure required. Position requires a minimum of 3 to 5 years of postdoctoral clinical and research experience and ability to conduct innovative research involving molecular/cellular immunology. Tenure track position available immediately. Excellent compensation (including fringe benefits) and academic rank commensurate with education and experience. The Knoxville area offers the scientific resources of the University of Tennessee and the Oak Ridge National Laboratory; recreational opportunities provided by the surrounding Great Smoky and Cumberland Mountains and extensive TVA lake system; and cultural amenities including a symphony and chamber orchestra, a major fine arts museum, opera and theatre. Letter of application, CV, and names and addresses of 3 reference sources should be sent to:

Alan Solomon, MD
Professor of Medicine and Head
Human Immunology and Cancer Program

**THE UNIVERSITY OF TENNESSEE**

Medical Center at Knoxville

1924 ALCOA HIGHWAY

KNOXVILLE, TENNESSEE 37920

The University of Tennessee is an Affirmative Action/Title IX/Section 504 employer.
DEAN
COLLEGE OF GRADUATE STUDIES
The Medical University of South Carolina, an expanding health science campus, invites applications and nominations for the position of Dean of the College of Graduate Studies. The Dean will report to the Vice President for Academic Affairs and will be responsible for the quality and development of all aspects of graduate degree programs involving research training. Responsibilities include:

- Developing creative recruitment programs for augmenting the quality and number of graduate students.
- Participating in the university-wide recruitment of 70 new investigators.
- Providing leadership for the development of new research training programs.
- Coordinating graduate research training programs with the activities and goals of the five other colleges and centers at the Medical University.
- Maximizing financial resources for predoctoral and postdoctoral training and providing leadership in the use of these resources for the advancement of academic excellence on campus.

Candidates for the position must have a Ph.D. or equivalent doctoral degree, a strong background in research and graduate education, and a commitment to academic excellence.

Nominations and applications, including a curriculum vitae, should be sent by March 15, 1990 to:

Jim D. Karam, Ph.D., Chairman
Search Committee for Dean of the College of Graduate Studies
Department of Biochemistry and Molecular Biology
Medical University of South Carolina
171 Ashley Avenue
Charleston, South Carolina 29425

The Medical University of South Carolina is an equal opportunity, affirmative action employer.

ANATOMY/CORE BIOLOGY
The Department of Anatomy and Cell Biology in the Faculty of Medicine at the University of Alberta invites applications for several faculty positions. Applicants should have research expertise in cell or developmental biology, or in molecular biology as it relates to problems in cell function. Applicants should have proven records of research achievement and will be eligible for funding by the Alberta Heritage Foundation for Medical Research. Candidates should be capable of teaching graduate courses in Cell or Developmental Biology or in a medical school course in Cell Biology/Histology. Appointments will be made at all faculty levels.

Rank and salary will be determined according to University of Alberta guidelines. Successful candidates will be encouraged to carry on independent research programs, but will also have the opportunity for collaborative interactions with several multidisciplinary research groups within the University. Deadline for receipt of applications is May 1, 1990.

The University of Alberta is committed to the principal of equity in employment but, in accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents.

Please submit a curriculum vitae, a summary of research interests, and the names of four referees to Dr. Richard A. Murphy, Professor and Chairman, Department of Anatomy and Cell Biology, Faculty of Medicine, University of Alberta, Edmonton, Alberta, Canada, T6G 2H7.

BIOTECHNOLOGY
DIRECTOR OF TOXICOLOGY, RESEARCH & DEVELOPMENT
Cetus Corporation, a leader in biotechnology, is seeking an accomplished, highly motivated leader in toxicology to direct scientists and technical staff involved in the research and development of novel biotechnology products.

You must possess a doctorate in Toxicology/Pathology or related discipline and have 5+ years of experience in the pharmaceutical industry, including hands-on experience conducting and supervising regulatory toxicology work as well as managerial experience. You must also be strong scientifically, as evidenced by extensive and significant contributions to the literature. Experience in the areas of safety assessment, pathology, reproductive toxicology, veterinary medicine, physiological toxicology and carcinogenicity is highly desirable. Experience with immunological products, especially recombinant biological response modifiers and antibodies is also highly desirable. In addition, experience with the FDA is essential. Board certification in Toxicology or Pathology is also desirable.

Cetus provides an outstanding opportunity for professional recognition as well as career growth. We offer an excellent compensation and comprehensive benefits package. For consideration, please send your resume to: Cetus Corporation, Box 89066/MS, 1400 Fifty-Third Street, Emeryville, CA 94608. We are an Equal Opportunity Employer.

DIRECTOR
Microchemical Core Facility
San Diego State University

The 20-campus California State University System (CSU) is establishing a state-of-the-art microchemical instrumental resource core facility that will serve the university molecular life science faculty in the Departments of Chemistry and Biology as well as in ancillary academic and research units on CSU campuses across the State of California. The Microchemical Core Facility (MCF) has been created under the auspices of the CSU Program for Education and Research in Biotechnology (CSUPERB) with instrumentation of $1.1 million from the NSF and the State. It will be a full service facility with 6-8 support personnel providing peptide and DNA sequencing, peptide and oligonucleotide synthesis, amino acid analysis, and separation services. The MCF will also be the locus of the new system-wide biocomputing facility and will be located within the Department of Chemistry and Molecular Biology Institute at San Diego State University.

Applications are invited for the directorship of the MCF which will include a 12-month, tenure or tenure-track academic position in the Department of Chemistry at SDSU. Qualified candidates should have a Ph.D in Biochemistry, Chemistry or Molecular Biology with a strong background in protein and DNA chemistries and prior experience in administration of a laboratory service facility. The MCF will have service, training, and research functions. The Director will combine strong scientific credentials with entrepreneurial management tools in the effective operation of the MCF. The Director is expected to guide the development of the MCF, including assembly and direction of staff, development of methodologies for appropriate functioning of the MCF, and acquisition of instrumentation in support of research and bioanalytical instruction. The Director will also participate in the bioanalytical component of the joint PhD programs in Chemistry and Cell and Molecular Biology, maintain a strong, creative research program, and participate in biotechnological, bioanalytical and biocomputational development.

Please send curriculum vitae, a description of relevant experience and research interests, and three letters of recommendation to: Chair, CSUPERB MCF Director Search Committee, College of Sciences, San Diego State University, San Diego, CA 92182. The search will be kept open until a suitable person is identified, but applications or nominations received before March 9, 1990, will receive full consideration.

San Diego State University is an Equal Opportunity Educator and Employer and invites and encourages applications from women and minority groups.

ANATOMY/CORE BIOLOGY
The Department of Anatomy and Cell Biology in the Faculty of Medicine at the University of Alberta invites applications for several faculty positions. Applicants should have research expertise in cell or developmental biology, or in molecular biology as it relates to problems in cell function. Applicants should have proven records of research achievement and will be eligible for funding by the Alberta Heritage Foundation for Medical Research. Candidates should be capable of teaching graduate courses in Cell or Developmental Biology or in a medical school course in Cell Biology/Histology. Appointments will be made at all faculty levels.

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Please submit a curriculum vitae, a summary of research interests, and the names of four referees to Dr. Richard A. Murphy, Professor and Chairman, Department of Anatomy and Cell Biology, Faculty of Medicine, University of Alberta, Edmonton, Alberta, Canada, T6G 2H7.

DIRECTOR
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Please send curriculum vitae, a description of relevant experience and research interests, and three letters of recommendation to: Chair, CSUPERB MCF Director Search Committee, College of Sciences, San Diego State University, San Diego, CA 92182. The search will be kept open until a suitable person is identified, but applications or nominations received before March 9, 1990, will receive full consideration.

San Diego State University is an Equal Opportunity Educator and Employer and invites and encourages applications from women and minority groups.
DIRECTOR, CENTRAL WISCONSIN GROUNDWATER CENTER. The director will con- duct activities in the center's mission of groundwater education and technical assistance to Wis- consin residents and communities. Academic staff or tenure-track position depending on degree status. Teaching responsibilities in CWR possible. Ph.D. preferred, M.S. required, in groundwater science or related field, with training and/or experience in hydrogeology. For further information, contact Byron Shaw, CWR, Uni- versity of Wisconsin, Stevens Point, WI 54481. Tele- phone: 715-346-3331. Fax: 715-341-0089. Screening begins 1 February 1990 and will continue until position is filled.

 ELECTRON MICROSCOPIC TECHNICIAN Meharry Medical College seeks a technician to direct activities in its college-wide electron microscope facility. Experience in transmission and scanning electron micro- copy techniques is required. Opportunity for collabora- tive work with investigators throughout the college is available. Salary is negotiable depending on qualifica- tions and experience. Send curriculum vitae and informa- tion on relevant work experiences to: Dr. James C. Story, Chairman, Department of Anatomical Sci- ences, Meharry Medical College, 1005 D. B. Todd Boulevard, Nashville, TN 37208. Meharry Medical College is an Affirmative Action/Equal Opportunity Employer.

ENVIRONMENT, RESOURCES, SOCIETIES. Rutgers University. Tenure-track position, pending budgetary approval, in the Department of Human Ecology, Cook College. Applicants' research should focus on international dimensions of agriculture, rural de- velopment, or natural resource use and management in land use, water, forestry, fisheries, and/or energy. Inter- national, preferably Third World, experience and ability to link domestic/New Jersey and international issues. Responsibilities include undergraduate and graduate teaching and research. Ph.D. in relevant discipline. The Department of Human Ecology is a multidisci- plinary social science department concerned with social processes in the study of environmental and resource issues. Send curriculum vitae, a statement of research interests, and addresses of references by 15 March 1990 to: Dr. Bonnie J. McCoy, Chair, Search Committee, Department of Human Ecology, Cook College, Rutgers University, P.O. Box 231, New Brunswick, NJ 08903. Equal Opportunity/Affirma- tive Action Employer.

FACULTY POSITIONS IN MOLECULAR BIOLOGY The Fullbright College of Arts and Sciences at the University of Arkansas, Fayetteville, AR is seeking applications for four tenure-track ASSISTANT PROFESSOR posi- tions in molecular biology, available August 1990. Can- didates should possess a Ph.D. degree with relevant research experience. In addition to a strong background in one of the disciplines listed below, excellence in teaching, and the ability to establish a nationally competitive research program are required. Also, the successful candidates will be expected to serve as molecular biology resource persons for biologists campus wide and to work coopera- tively with other molecular biologists. Space for a central molecular biology facility with a support technician will be provided. Salary and start-up support are nationally competitive. Details of the following are included in the following departments: (i) Chemistry and Biochemistry, for a research specialist in site-specific mutagenesis of pro- teins; (ii) Botany and Microbiology, for two molecular biologists with research interests in one of the following fields: molecular genetics/physiology, molecular immunology, or molecular virology; (iii) Zoology, for a research specialist in the current area of selection, growth, and control of model organisms, including, but not limited to, motility, cell-cell interac- tions, receptors, and intracellular signaling (the zoology position is under review and the search announced in Science, 8 September 1989). Please submit a letter of application (specifying which position(s) you are applying for), a current curriculum vitae, and future research interests and teaching goals, and arrange to have three letters of reference sent to: The Department of Chemistry and Biochemistry, Fullbright College of Arts and Sciences, University of Arkansas, Fayetteville, AR 72701. Applications will be re- viewed when complete and the searches will continue until all positions are filled. The University of Arkansas is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT) FACULTY POSITION Massachusetts Institute of Technology seeks a JUNI- OR FACULTY MEMBER in the broad area of biomedical engineering or biomedical physics. The ap- plicant will be involved in teaching the next generation of scientists, engineers, and physicians who expect to work at the interface of technology and medicine. The individual's research area is flexible and could range, for example, from medical instrumentation to bio- systems physiology to innovative diagnostic or therapeutic devices. The individual should possess a doctoral degree in the physical sciences or engineering. A strong background in biological/medical sciences is required. The appointment will be made jointly between the Harvard- MIT Division of Health Sciences and Technology (HST) and an MIT department in the individual's discipline.

Qualified applicants should send a letter including a two-page statement of current or proposed research, curriculum vitae, and three letters of reference, by 1 April 1990 to: Professor Roger G. Mark Co-Director, HST MIT Division Room 21-515 Massachusetts Institute of Technology Cambridge, MA 02139

The letters of reference may be sent separately, but the names and addresses of referees must be included in the application.

MIT is an Affirmative Action/Equal Opportunity Employer.

THE UNIVERSITY OF CALGARY GROWTH FACTORS IN Ocular DISEASE The Lions' Sight Center of the University of Calgary invites applications for one or more full-time academic positions, with Ph.D. or M.D. and with equivalent research training; at least 2 years of postdoctoral experience; an established research record in cellular or molecular biology concerning the expression or action of growth factors; and a commitment to investigate the role(s) of growth factors in diabetic retinopathy, retinal degeneration, or ocular growth and myopia. A renewable 5-year scholarship will be available upon successful application to the Alberta Heritage Founda- tion for Medical Research and the Medical Research Council of Canada. Salary and academic rank will be commensurate with experience.

The successful candidate(s) will be affiliated with the Lions' Sight Center, an appropriate academic depart- ment, and an interdisciplinary research group in the Faculty of Medicine. Collaborations will be encouraged with researchers in neuroscience, development- mental biology, and retinal cell biology. At least 75% of time will be protected for research.

Please submit a letter of application accompanied by a statement of research interests, and the names of three references, by 15 March 1990 to: Dr. W. K. Stell Director, Lions' Sight Center The University of Calgary 3330 Hospital Drive, N.W. Calgary, Alberta, Canada T2N 4N1

In accordance with Canadian immigration requirements, pri- ority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary has an Employment Equity Program and encourages applications from all qualified candidates, including women, aboriginal people, visible minor- ities, and people with disabilities.

RESEARCH FACULTY POSITION PHYSICAL OCEANOGRAPHY The University of Washington School of Oceanogra- phy seeks a physical oceanographer with expertise in numerical simulation and/or theory applied to geophys- ical fluid dynamics in one or more of the following areas: general oceanic circulation, wind-driven circulation, physical oceanography. Interactions among physical dy- namics with the atmospheric sciences and applied mathematics groups are particularly active, as are those with tracer chemistry involving carbon cycle and/or climate research. Facilities of interest to modelers include a network of Unix workstations, fast links with several supercomputers, and a new (and wet) geophysical fluids dynamics laboratory.

Research faculty are encouraged to teach with a por- tion of their salary provided by the school. Upon promo- tion, research faculty have professorial status within the university, and enhanced state support. We anticipate that the appointment will be at the ASSISTANT PRO- FESSOR rank, although more senior persons may be considered.

Closing date for applications is 15 March 1990.

Applications, including the names and addresses of references, should be sent to: Professor Arthur R. M. Nowell, Director, School of Oceanography, WBP-10, Universi- ty of Washington, Seattle, WA 98195. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

MEDICAL PHYSICIST

Master of Science degree in radiological physics re- quired. Board-certified or eligible for certification by the American Board of Radiology in radiological physics. Must be able to perform the following duties: (i) serve as a consultant to the radiation therapist in treatment planning and dosimetry; (ii) perform dosimetric calcula- tions; (iii) calibrate radiation sources used in radiation therapy; (iv) maintain assigned source inventory, leak test, etc., relative to interstitial therapy activities as to patient, staff, and public safety; (v) assure license and regulation compliance throughout the department; (vi) serve as a member of the Radiation Safety Committee; (vii) serve as a member of the Radiation Safety Committee; (viii) assist in service and courses regarding radiation physics; and (ix) perform special projects as assigned. Hours are 8:00 a.m. to 5:00 p.m., 40 hours per week. Beginning salary is $21.64 per hour, with possible overtime.

Position available. Interested applicants contact:

The Employment Security Division
1001 Tennessee Street
Pine Bluff, AR 71602

Must have proof of legal authority to work in the United States. Job Order #638629.
Agricultural Biotechnology
Postdoctoral Associates

CIBA-GEIGY'S Agricultural Division, a leader in genetic engineering, crop improvement and crop protection chemicals, seeks candidates for two Postdoctoral Associate positions in our Agricultural Biotechnology Research Unit in Research Triangle Park. Our state-of-the-art facility is close to a major concentration of universities, businesses, research institutions and government agencies in North Carolina.

Both appointees will be part of our Tissue Culture Department working with maize. Research topics include the molecular basis of regeneration and environmental stress tolerance. Taking advantage of our excellent maize cell culture and molecular biology expertise, you will have the opportunity to collaborate with a dynamic team of scientists to develop innovative approaches to studying these topics.

In addition to a PhD in an appropriate plant science discipline, the ideal candidate will have experience in plant cell culture and background relevant to the research topics.

CIBA-GEIGY offers a competitive salary and generous company-paid benefits. Please send resume with three letters of professional reference, and reprints from any publications, in confidence, to: Dr. Mary-Dell Chilton, CIBA-GEIGY Corporation, P.O. Box 12257, Research Triangle Park, NC 27709. We Are An Equal Opportunity Employer M/F/H/V.

Science Serving Mankind

CIBA-GEIGY

T CELL SCIENCES, INC. is a health care company engaged in the development and marketing of therapeutic and diagnostic products. Positions at T CELL SCIENCES include a career-enhancing environment and the opportunity to work with internationally recognized scientists in converting their discoveries into products.

Research Director Molecular Biology & Biochemistry

Continued growth has created an opportunity for an M.D. or Ph.D. to manage and expand our efforts in key biopharmaceutical areas. The candidate should possess a vision of novel drug sources in biotechnology, and have had extensive industrial experience in managing senior scientists in molecular biology and biochemistry. Experience in various recombinant protein expression systems, receptor biology and some areas of biology preferred. This position requires interaction with recognized world-class advisors and consultants of the Company, as well as evaluation and development of new programs. Candidates from varied backgrounds are encouraged to apply.

Group Leader/Immunobiology

Significant therapeutic research has created a position for a D.V.M, M.D. or Ph.D. with an interest to establish animal models to study immunological diseases and the use of immunoregulatory compounds for treating other disorders, such as tumors and cardiovascular diseases. The candidate will have worked with one or more of the animal models of autoimmune disorders such as lupus, arthritis, diabetes and encephalomyelitis, and will have ample knowledge of elementary surgical procedures in small mammals (mice, hamsters and rats). This position requires 3-5 years postdoctoral and supervisory experience, preferably in industry. Research will involve the testing of newly developed compounds and recombinant DNA products for treating and preventing diseases.

T CELL SCIENCES, INC. offers competitive compensation, comprehensive benefits, and opportunity for significant career advancement. For immediate consideration please forward C.V. to Paula R. Freeman, T CELL SCIENCES, INC., 38 Sidney Street, Cambridge, MA 02139.
For our Research Centre in Vers-chez-les-Blanc, north of Lausanne (Switzerland) we are seeking a

**MICRO-WAVE SPECIALIST**

to study warm up phenomena in micro-wave ovens linked to food composition, its form and packaging, and the kind of oven. He (she) will also be in charge of investigations on new food drying techniques in order to improve the quality of our products.

The successful candidate holds an Engineering diploma in Food Science, or has equivalent education, as well as experience in micro-wave applications and in mathematical modeling.

Please send your application with curriculum vitae to Mrs. M. Germanier Audrin, Nestlé Research Centre, Personnel Office, P.O. Box 353, CH-1800 Vevey, Switzerland.

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**PROFESSOR AND CHAIR**  
**DEPARTMENT OF BIOCHEMISTRY**  
**UNIVERSITY OF KENTUCKY**  
**COLLEGE OF MEDICINE**

A. B. CHANDLER MEDICAL CENTER

Nominations and applications are invited for the position of Professor and Chair of the Department of Biochemistry at the University of Kentucky, College of Medicine. The department is responsible for the education of 360 medical and 31 graduate students and consists of 17 tenured and tenured-track faculty. The department is well funded and equipped. We are seeking candidates with an outstanding record of achievement in the fields of biochemistry and/or molecular biology to provide strong leadership to an excellent department. Candidates should have a doctorate in biochemistry or a related discipline, experience in academic medical center administration and a proven record of scientific excellence. Candidates should submit a curriculum vitae and the names of references by not later than February 16, 1990 to:

**Emery A. Wilson, M.D., Dean**  
**College of Medicine**  
**University of Kentucky**  
**A. B. Chandler Medical Center, Room MN 140**  
**800 Rose Street**  
**Lexington, Kentucky 40536–0084**

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

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**NEUROGENETIC CORPORATION**

Neurogenetic Corporation has established itself as a leader in the cloning and investigation of neurotransmitter receptors in the human brain. Our program utilizes basic research initiatives to develop new therapeutic approaches for the treatment of neurological and psychiatric illness. Career opportunities are currently available for Ph.D. scientists with postdoctoral experience in the following areas:

**Molecular Biologists:** Candidates should have experience in molecular cloning, mammalian cell transfections, or PCR technology.

**Medicinal Chemists:** Candidates should have experience in synthetic organic chemistry or the use of natural products for drug design; applications are sought at both senior (group leader) and staff scientist levels.

Neurogenetic Corporation is an equal opportunity employer located in the New York City metropolitan area. We offer a competitive salary and benefits package, relocation expenses and stock ownership. Please submit your curriculum vitae along with the names of three references to:

Human Resources Manager  
Neurogenetic Corporation  
215 College Road  
Paramus, NJ 07652

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**DEAN**  
**College of Computer, Mathematical, and Physical Sciences**  
**UNIVERSITY OF MARYLAND, COLLEGE PARK**

Applications and nominations are invited for the position of Dean of the College of Computer, Mathematical, and Physical Sciences at the University of Maryland, College Park campus. The Dean provides both academic and administrative leadership for the College and reports directly to the Vice Chancellor for Academic Affairs and Provost.

The College consists of the departments of Computer Science, Geology, Mathematics, Meteorology, and Physics and Astronomy, as well as the Applied Mathematics Program, the Center for Automation Research, the Chemical Physics Program, the Institute for Physical Science and Technology, the Institute for Advanced Computer Studies, and the Laboratory for Plasma Research. The College employs 472 faculty members and approximately 800 support personnel. Presently about 2,300 undergraduate students and 800 graduate students are enrolled in degree programs within the College. In 1988-89, researchers in the College were awarded approximately $34 million in external grants and contracts. The state-supported budget was about $28 million.

A candidate should have an earned doctorate, be eligible for appointment in a department of the College at the rank of Professor with tenure, have successful experience as a teacher and a distinguished record of scholarly research, and have demonstrated leadership ability and management skills.

Applications should include a curriculum vitae and the names and addresses of at least four references. For best consideration, all applications should be submitted before March 1, 1990 to:

**Patrick F. Cunniff**  
**Office of Graduate Studies & Research**  
**2125 Lee Building**  
**University of Maryland**  
**College Park, Maryland 20742**

The University of Maryland is an equal opportunity, affirmative action employer. Women and minority candidates are encouraged to apply.
The Department of Environmental Health seeks a dynamic, innovative leader to exploit growth opportunities in educational offerings, research and service with 14 faculty members specializing in epidemiology (veterinary and human), toxicology, water/waste water, occupational health, biostatistics, and vector-borne diseases. Unique opportunities exist to enhance educational offerings at the doctoral or master’s (63 students) and bachelor’s (100 students) levels on campus and off-campus offerings. Growth opportunities exist in toxicology, occupational health, hazardous material and environmental risk assessment. Applicants must possess a Ph.D., M.D., D.V.M., or equivalent; demonstrated leadership/organizational ability; and scholarly/professional achievements appropriate for appointment to full professor. Salary is negotiable. Qualified applicants from industry or government and especially women and minority group members are encouraged to apply. Send a letter of application, curriculum vitae and five references to: Dr. Rupert P. Amano, Head; Department of Physiology, Colorado State University, Fort Collins, CO 80523. Phone 303-491-6187. Applications will be accepted until March 23, 1990. Colorado State University is an equal opportunity/affirmative action employer.

IITRI is a renowned not-for-profit contract research and development organization. We are seeking Ph.D. level scientists to conduct research in our Life Sciences Department.

RESEARCH BIOCHEMISTS/PHARMACOLOGISTS:
Conduct research with interdisciplinary teams in cancer chemoprevention/carcinogenesis, and toxicology. Postdoctoral experience in one or more of the following areas is desirable: eicosanoid analysis, tissue distribution, pharmacokinetics, metabolism studies, and toxicology. Development of research program in area of expertise encouraged. Direct resume to: Dept.#/RBR.

TOXICOLOGIST/PHARMACOLOGIST: Advanced degree and 2-4 years of industrial or postdoctoral experience. Responsibilities include Study Director functions for regulatory toxicology studies; the design and conduct of studies to evaluate xenobiotic bioavailability and disposition (i.e., ADME) following various routes of exposure; preparation of research proposals, reports and publications; and supervision of technical staff. Must have in vivo toxicology and drug metabolism experience as well as a demonstrated comprehension of analytical methodologies. A solid background in fundamental toxicology is essential. Familiarity with GLP regulations, in vitro research techniques and pharmacokinetics is desirable. Direct resume to: Dept. #/TPO.

INHALATION TOXICOLOGIST: Advanced degree in toxicology; strong chemistry background preferred, and 2-3 years of experience. Assume responsibilities as Study Director for acute, subchronic and chronic Inhalation toxicology studies. Responsibilities include participation in design, supervision and conduct of experiments, preparation of protocols and SOPs, scheduling of studies, interpretation and evaluation of results, and report writing. Direct resume to: Dept. #/ITO.

MICROBIOLOGIST: Advanced degree in microbiology and/or immunology and 0-3 years of experience. You will join a team of investigators studying pathophysiologic immunologic responses in experimental animals. Responsibilities will include participation in ongoing research grants and contracts; preparation of research proposals, reports and publications; and supervision of junior technical staff. Direct resume to: Dept.#/MIC.

MOLECULAR BIOLOGIST OR MOLECULAR PHARMACOLOGIST: Candidate should have at least 2 years postdoctoral experience and a strong interest in the areas of carcinogenesis and cancer chemoprevention. Participate in an ongoing program in cellular biology, retinoids, growth factors and hormones as related to mammary cancer. Candidate will also be encouraged to develop a research program in an area of interest. Direct resume to: Dept. #/MBP.

NUTRITION AND/OR CARCINOGENESIS: Conduct research with interdisciplinary team in cancer chemoprevention and carcinogenesis. Postdoctoral experience highly desirable. Development of research program in area of expertise encouraged. Direct resume to: Dept. #/NUC.

MANAGER, QUALITY ASSURANCE: Applicants should have a minimum of a B.S. degree in chemistry or biology and 3-5 years experience in GLPs and QA related to toxicological and chemical studies for EPA and FDA under TSCA, FIFRA, etc. Must have a good understanding of present regulatory issues and excellent verbal and written communication skills since responsibilities involve several departments and extensive client contact. Supervisory experience is a plus. Direct resume to: Dept. #/MQA.

IITRI provides a competitive compensation/benefit package. Submit resume with salary specifics in confidence to: Ms. L. Arneth, IIT Research Institute, 10 West 35th Street, Chicago, IL 60616. An Equal Opportunity/Affirmative Action Employer.
University Of Missouri-Kansas City
Dean, Graduate Faculty and Research

Nominations and applications are invited for the position of dean of the Graduate Faculty and Research at the University of Missouri-Kansas City.

The University of Missouri-Kansas City, one of four campuses of the University of Missouri System, has an enrollment of approximately 12,000 students, of whom 10% are professional students and 30% are master’s or doctoral students. UMKC includes the schools of Basic Life Sciences, Dentistry, Education, Law, Medicine, Nursing, Pharmacy, the College of Arts and Sciences, the Conservatory of Music, the Computer Science Telecommunications Program and a cooperative engineering program with the University of Missouri-Columbia. All schools, the Conservatory and the College offer graduate or professional study.

UMKC is the only comprehensive university in the metropolitan Kansas City area. With a population of 1.500,000, the metropolitan area has a diverse economic base. The city is known for its quality of life and an array of arts and professional sports. The main campus is located in a residential area.

The person to fill this position will lead with vision and creativity the development of research and graduate programs at the University of Missouri-Kansas City and should possess the following qualities:

- A record of outstanding research, nationally recognized
- A background of successful administrative leadership in graduate education, including doctoral programs
- Demonstrated ability to secure funding for research and graduate education
- Sensitivity toward and ability to deal with students, faculty, government and the community
- Commitment to affirmative action in graduate education/research

Responsibilities Include:

- Strategic planning for research and graduate studies
- Facilitation and oversight of faculty and student research and scholarly activity
- Administration of graduate education
- Leadership in development of interdisciplinary Ph.D. programs
- Liaison with business and community leaders
- Identification and development of research support
- Negotiation with agencies and foundations

Nominations and applications may be sent to the address below. Each candidate is asked to submit a letter of application, a current curriculum vitae, and the names, addresses and telephone numbers of three references.

Dr. Linda E. Voigt, Chair, Search Committee
Dean, Graduate Faculty and Research
Office of Academic Affairs
University of Missouri-Kansas City
Kansas City, Missouri 64110-2499

A review of applications will begin March 1, 1999.

The University of Missouri is an equal opportunity, affirmative action employer. Women and minorities are encouraged to apply.

POSITIONS OPEN

HYDROGEOLOGIST. For firm in northeastern Ohio. Participation as a professional member of the investigation team, in geologic and hydrogeologic investigations on surface and groundwater contamination problems arising from such causes as hazardous chemical spills and groundwater pollution from landfills. Involves supervision of field operations projects, including sampling (surface and subsurface water, soil, and hazardous and industrial waste disposal sites), as well as geologic mapping and surveying, the principal instruments used being the electro microprobe and the photo-ionization detector. Also responsible for interpreting and evaluating the results of gas chromatography/mass spectrometry (GC-MS) analytical reports, and preparation of portions of hydrogeologic reports based upon computerized study of the sampling data. Literature searches to identify new techniques which promise to be used in hydrogeological analysis. Job involves extensive travel in Ohio, Pennsylvania, Kentucky, and Michigan. Must have B.S. in hydrogeology and academic program must have included one graduate level course each in: sedimentary petrology, exploration geophysics, ore microgeochemistry, hydrochemistry, and water resource evaluation. Must have 1 year experience in hydrology. Must have ability, either from academic duties or work experience, to supervise soil borings and monitor well installation. Must have had a recent physical examination, including spirometry. Forward applications to: Dr. S. E., 8 a.m. to 5 p.m. Monday to Friday; 22,675 per year. Must have proof of legal authority to work permanently in United States. Send resume and duplicate no calls to: C. Bussard, J.O. #1273005, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

MOLECULAR IMMUNOLOGIST POSITION

DHHS/PHS Food and Drug Administration (FDA), Center for Devices and Radiological Health (CDRH), invites applications for position of molecular immunologist, GS-12/14/15, located in Rockville, Maryland. This position is in the Division of Life Sciences and requires that one obtain direct intra- and extracellu-

lular research programs in molecular immunology and serve as the program's lead scientist. The duties and responsibilities of the position include but are not limited to: designing experiments oriented to support the evaluation of the safety and effectiveness of in vivo diagnostic devices based on new immunological principles. A Ph.D. degree or equivalent in immunology is required with demonstrated research experience and knowledge of molecular biology techniques including recombinant DNA technology and monoclonal antibody techniques. Appointment may be at the GS-12 through GS-15 level depending on the experience and qualifications of the candidate, with a salary range from $35,825 to $76,988 per annum. Qualified candidates may also be appointed through the Commissioned Corps system in the U.S. Public Health Service. Please send curriculum vitae, resume, or SF-171, and reprints of a few representative publications to: Jose-Luis Sagripanti, D.Sc., Acting Branch Chief, Molecular Biology Branch, FDA, Cen-
ter for Devices and Radiological Health (HFZ-113), 12709 Twinbrook Parkway, Rockville, MD 20857. Telephone: 301-443-7153. U.S. citizenship is required.

The FDA is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available for studies involving the interaction of TGFB, retinoids, and nuclear retinoic acid receptors in the control of epithelial cell growth and differentiation. Experience in cell culture and molecular biology desirable. Send curriculum vitae and names of three references to: Dr. Michael N. Hogan, Department of Biochemistry, University of Illinois at Chicago, Chicago, IL 60680. Salary: $25,000 or commensurate with experience provided by NIH Merit Award. Applicants should have, or expect to receive, a Ph.D., and preferably experience in biochemistry, molecular biology, or cell biology.

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

POSTDOCTORAL POSITION open now to study DNA packaging, viral assembly, and molecular biology of retroviruses. The study will involve a combination of T4 packaging system with P1 and DNA vectors for human genome mapping, mechanism of packaging, and construction of packaging protease-gene fusion vector system [Annu. Rev. Microbiol. 43, 267 (1989)]. Salary: $25,000 or commensurate with experience provided by NIH Merit Award. Applicants should have, or expect to receive, a Ph.D., and preferably experience in biochemistry, molecular biology, or cell biology.

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

POSTDOCTORAL POSITION open now to study nerve growth factor receptor (NGFR) and differentiation in neural cell lines. Current work includes the preparation of recombinant NGFR in the baculovirus system, the measurement of NGFR lateral diffusion and aggregation by fluorescence microscopy, the elucidation of the cytoskeletal linkage of the NGFR, and the role of oncogenes in regulating differentiation of neuroblastoma cell lines. Experience in protein chemistry, DNA technology, protein chemistry desirable. Submit curriculum vitae and three letters of recommendation to: Dr. Louis M. Black, Department of Biochemistry, University of Maryland Medical School, Baltimore, MD 21201. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE

Postdoctoral position available in June 1990 to study nerve growth factor receptor (NGFR) and differentiation in neural cell lines. Current work includes the preparation of recombinant NGFR in the baculovirus system, the measurement of NGFR lateral diffusion and aggregation by fluorescence microscopy, the elucidation of the cytoskeletal linkage of the NGFR, and the role of oncogenes in regulating differentiation of neuroblastoma cell lines. Experience in protein chemistry, DNA technology, and protein chemistry desirable. Submit curriculum vitae, a NIH scale. Submit curriculum vitae and three letters of rec-

ommendation to: Dr. Joseph H. T. Ross, c/o Personnel Officer, Dalhousie University, Faculty of Pharma-

cy, 222 Maple Avenue, Shrewsbury, MA 01545.

The University of Massachusetts is an equal opportunity, affirmative action employer. Women and minorities are encouraged to apply.
Information Scientist/Literature Searcher

The Agricultural Research Division of American Cyanamid Company seeks an individual with a strong background in animal science, veterinary medicine, or zoology, and knowledge of information resources in biology. The position provides opportunities to work at the forefront of veterinary science and animal production, supporting and interacting with an active R&D staff in an intellectually stimulating environment.

The successful candidate will have an advanced degree in animal science, agricultural science, veterinary medicine, or zoology with a minimum of three years’ experience in an industrial position or clinical practice. Excellent written and verbal communication skills are essential. Experience in literature searching using manual and on-line bibliographic retrieval systems is highly desirable.

American Cyanamid offers an excellent compensation and benefits package and a convenient location midway between New York City and Philadelphia. Qualified candidates please send your resume, in confidence, to: Judith C. Leondar, Manager, Technical Information Services, American Cyanamid Company Agricultural Research Division P.O. Box 400 Princeton, NJ 08543-0400. An Equal Opportunity Employer M/F/H/V. No Agencies Please.

POST-DOCTORAL SCIENTIST
MOLECULAR BIOLOGY

Amgen is a leader in the discovery and development of innovative human therapeutic and diagnostic products through applied biotechnology. Our continued growth has offered us the opportunity to establish a post-doctoral position in the human diagnostics group in Boulder, Colorado for cDNA cloning and expression of human cell surface receptors.

Qualified applicants must have a Ph.D. in a relevant discipline and be experienced in cDNA cloning.

Amgen offers the unique opportunity to participate in challenging research programs using state-of-the-art technology in an environment that fosters scientific creativity and collaboration. If you have the necessary skills and qualifications and would like to experience research in a supportive company environment, please send a resume or CV, in confidence, to:

AMGEN BOULDER, INC.
Personnel Dept.
2045 32nd Street
Boulder
CO 80301

Equal Opportunity Employer

NMR Program Head

Battelle, Pacific Northwest Laboratories

Battelle, Pacific Northwest Laboratories is seeking a senior scientist to head a new multiuser NMR facility that is part of its Molecular Science Research Center. The NMR facility will contain 300- and 500-MHz spectrometers with capabilities for 2-D NMR on solids and liquids. A new spectrometer operating in the frequency range of 800 to 1000 MHz will also be developed as part of the long-range plans for structural studies on macromolecules, including nucleic acids, proteins and polymers.

The Pacific Northwest Laboratory is one of five national multiprogram energy laboratories, and is operated by the Battelle Memorial Institute under a contract with the U.S. Department of Energy. The Laboratory has a staff of approximately 3000 personnel conducting research in physics, chemistry, materials, engineering, mathematics and computer science, earth and environmental sciences, and the life sciences.

Applicants should send a resume, reprints of 3-5 recent publications, and the names and telephone numbers of 4 references to: Dr. T.S. Tenforde, Chief Scientist, Life Sciences Center (K-50), Battelle, Pacific Northwest Laboratories, P.O. Box 999, Richland, Washington 99352. Deadline for receipt of application is April 13, 1990. An Affirmative Action, Equal Opportunity Employer.
FISH PATHOLOGIST II

We have a position for a Fish Pathologist II to help conduct a statewide finfish/shellfish health program and diagnostic service for the Alaska Department of Fish and Game, FRED Division.

Beginning salary is $37,356/year. A Ph.D. is desired; a Bachelor's degree in microbiology, bacteriology, zoology, fisheries biology or closely related field and four years of professional experience in fish pathology is required.

Applicants should submit an official State of Alaska employment application and copies of college transcripts to the Recruitment Coordinator, ADG office, P.O. Box 3-2000, Juneau, AK 99802-2000, phone (907) 465-4140. We are an equal opportunity employer.

State of Alaska

OFFERMAN-LA ROCHE

Senior Scientist
MOLECULAR GENETICS

Hoffmann-La Roche is an established leader in the pharmaceutical and health care industry, with a strong commitment to biotechnology. The Department of Molecular Genetics in the Roche Research Center conducts basic and applied research on lymphokines, growth factors, receptors and other areas with relevance to human pharmacology.

We are actively seeking a Senior Scientist to be responsible for an exploratory research program specializing in the development, characterization and validation of assays to measure therapeutic proteins and antibodies generated against these proteins in samples from pre-clinical and clinical studies. The research program will also include the development of novel probes and assays, such as assays based on recombinant receptors, which can specifically replace biological assays to measure biologically active proteins.

We encourage active publication, both internal and external research collaborations, training of postdoctoral fellows. Qualifications include a PhD in Biochemistry, Pharmacology, Cell Biology or a related discipline, and a minimum of two years of postdoctoral training.

The Roche Research Center is located in a suburban setting 10 miles from New York City. Roche offers a very competitive compensation package in a research environment that encourages scientific growth. Interested individuals are invited to send c.v. and a letter indicating future research interests, to: Mrs. Eleanor M. Malone, Sr. Professional Staffing Specialist, Department R.C., Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.

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CELL BIOLOGISTS

The Biology Department at the University of Nevada, Reno, is committed to developing a strong program in cell biology and is inviting applications for two tenure-track positions in that area, beginning Fall, 1990. One position will be for an Assistant Professor, the other for an Associate Professor. Minimum qualifications for the Assistant Professor position include a Ph.D. and at least two years of postdoctoral experience. Applicants for the Associate Professor position should be well-established scientists with a strong record of publications and grant support.

Salaries are competitive and commensurate with experience. The successful candidates will be expected to develop or maintain vigorous, externally funded research programs and will occupy laboratories in the newly renovated and equipped Cell and Molecular Biology facility. Responsibilities also include teaching at the undergraduate and graduate levels.

Although we are looking for creative scientists without regard to specific areas of interest, candidates who study fundamental problems in development, neurobiology or genetics at the cellular and molecular levels are especially encouraged to apply.

Applicants should submit a curriculum vitae, a description of research interests, reprints, and the names, addresses, and telephone numbers of five references to:

Chair, Cell Biology Search Committee
Department of Biology
University of Nevada, Reno
Reno, NV 89557

To ensure full consideration applicants are encouraged to have all materials on file by February 28, 1990. Position will remain open until filled. AA/EOE. UNR employs only U.S. citizens and aliens legally authorized to work in the U.S. Applications from women and ethnic minorities are encouraged.

POSITIONS OPEN

POSTDOCTORAL POSITION available. The Department of Pathology at the University of Michigan Medical School has openings for postdoctoral positions which offer training in experimental pathology. Special emphasis is on immunopathology and mechanisms of lung disease. Interested candidates should have a strong interest in academic medicine. Send curriculum vitae to: Kent J. Johnson, M.D., University of Michigan, Department of Pathology, 1301 Catherine Road, Ann Arbor, MI 48109-0620. An Equal Opportunity/Affirmative Action Employer.

ENTOMOLOGY POSTDOCTORAL


POSTDOCTORAL POSITIONS

Available immediately at the Joseph W. Jones Ecological Research Center. The Jones Center is being established at Ichauway, a 28,000-acre reserve in eastern Georgia which contains perhaps the largest remnant of the longleaf pine/wiregrass ecosystem and over 12 miles each of the Blackwater Ichauway-Noxahatchie Creek and the brownwater Flint River. We seek individuals oriented to field environments with interests in plant, wildlife, or stream ecology. Applicants must have a Ph.D. Inquiries and applications should be sent to: Charles H. McTIER, President, Robert W. Woodruff Foundation, Suite 1400, 230 Peachtree Street, N.W., Atlanta, GA 30308. Applications should include names of three references and a brief description of the proposed work, and should be submitted before 15 April 1990. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

Three postdoctoral positions are available in the Department of Physiology. Research areas include (i) role of gap junctions in regulation of vascular function, studied in vivo and in vitro with electrophysiological and immunological techniques (Dr. Janis Burt); (ii) function and control of transporters of organic molecules, studied in isolated renal tubules (Dr. William Dantzler); (iii) isolated and molecular characterization of organic nutrient transporters in several developing systems (background in biochemistry desirable) (Dr. Stephen Wright). Start dates and salaries are negotiable. Applications will be accepted until positions are filled or until 1 March 1990, whichever is earlier. Send curriculum vitae and three letters of reference to:

Drs. Burt, Dantzler, or Wright
Department of Physiology
College of Medicine
University of Arizona
Tucson, AZ 85724

The University of Arizona is an Affirmative Action/Equal Opportunity Employer and applications from females and minority members are strongly encouraged.

Ph.D. SCIENTIST, MEMBRANE RESEARCH. The Liposome Company, a growing biopharmaceutical firm specializing in lipid-based drug delivery systems, is offering a challenging opportunity for a scientist with a background in lipidology, membrane biophysics, or physical chemistry to conduct a broad-based research program as part of its innovative liposomology group. Ph.D. or 3 to 5 years of postdoctoral experience required. Experience in freeze-fracture is desirable but not necessary. The Liposome Company is an equal opportunity employer offering competitive salaries, generous stock options, comprehensive benefits, and a creative work environment. Please forward your résumé to: Dr. Andrew Janoff, Executive Director of Research, The Liposome Company, One Research Way, Princeton, NJ 08540.
POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE
Position available to study intestinal epithelial receptors to adhesive pili of Escherichia coli. Ph.D. in microbiology, biochemistry, or allied field, with experience in protein purification. To apply, send a resume, a statement of research interests, and the names and addresses of three references by 26 February 1990 to: Drs. David Francis or David Benfield, Department of Veterinary Science, South Dakota State University (SDSU), P.O. Box 1275, Brookings, SD 57007. Telephone: 605-688-5171. SDSU is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITION as an ASSISTANT RESEARCH SCIENTIST is immediately available in lipid metabolism laboratory. Major emphasis on transport of vitamin E in plasma lipoproteins and regulatory mechanisms for discrimination of stereoisomeric forms to vitamin E. Experience in HPLC, GC, ultracentrifugation, PAGE, and protein purification desirable. Please send curriculum vitae and names of three references to: Joan Harmon, Personnel Department, New York University Medical Center, 550 First Avenue, New York, NY 10016. An Equal Opportunity Employer, M/F.

PROGRAM OFFICER FOR BIODIVERSITY SUPPORT PROGRAM
World Wildlife Fund (WWF), as the lead organization of a joint venture with The Nature Conservancy and the World Resources Institute’s Center for International Development and Environment is searching for a program officer to join biodiversity support program. The program officer will assist with efforts to meet the goals of the program to conserve biological diversity and promote sustainable economic growth in selected developing countries through improved conservation and use of biological resources.

Substantial work experience in less-developed countries, preferably in conservation and/or development activities, and an advanced degree in environmental science, international development, or a related field or equivalent combination of education and experience required. Candidates should demonstrate excellent communication skills, both oral and written, and be comfortable communicating in both English and French or Spanish or Portuguese. Agency for International Development experience desirable.


PROTEIN BIOCHEMIST
HOWARD HUGHES MEDICAL INSTITUTE
MASSACHUSETTS GENERAL HOSPITAL
A unique and exciting opportunity is open for an appropriately qualified biochemist to work in a microchemistry facility equipped with state-of-the-art instrumentation. Functions of the facility include protein microsequencing, peptide and nucleic acid synthesis, and characterization. The studies involve the design of protein analogs of important hormone ligands and components of nuclear transcription factors. There will also be opportunity for methods development research. Prerequisites are a Ph.D. or M.S. degree in biochemistry and some experience with protein synthesis or sequencing. Top salary and benefits package available. Send resume to: Sheila G. Magill, Ph.D., Howard Hughes Medical Institute, Wellman 511, Massachusetts General Hospital, Boston, MA 02114. Equal Opportunity Employer.

RESEARCH ASSOCIATE
Conduct research on nuclear magnetic resonance (NMR) spectroscopy of proteins to develop innovative, in vivo techniques to study the biochemistry of muscle and brain diseases. Record and analyze P-31, C-13, and H-1 NMR spectra of proteins in vitro and excited human tissues. Ph.D. in chemistry or biochemistry and 2 years of postdoctoral research experience in NMR spectroscopy of biological molecules required. Salary: $27,500 per year, 40 hours per week, 9:00 a.m. to 5:00 p.m. This is a university position. Send resume to: Illinois Department of Employment Security, 401 South State Street—3 South, Chicago, IL 60605. Attention: Robert S. Felton. Reference V-IL 9840-F. An employer-paid ad.

Schering-Plough

If spearheading breakthroughs in drug discoveries is what you have in mind, come to Schering-Plough Research.

Aggressive, goal-driven research gives Schering-Plough its competitive edge in the health care industry. This is your opportunity to apply your innovative thinking to some of today’s most significant pharmaceutical breakthroughs in allergy and immunology drugs.

Senior Scientist
To conduct research directed toward understanding the roles of various cytokines in allergic and immunologic disorders. Will investigate regulation of cytokine gene expression and thereby identify novel targets for drug discovery. Requires Ph.D. with one to three years' postdoctoral experience in molecular biology.

Postdoctoral Fellow
To study in vivo role of selected cytokines in animal models of immunologically mediated disease. Explore mechanisms of cytokine involvement using molecular biology, immunohistochemistry and cellular immunology, as well as administering anti-cytokine antibodies by standard and novel means. Background in cellular immunology, gene expression, histology and experience with disease models desirable.

At Schering-Plough, you’ll receive the support and recognition you need to pursue your best ideas. In addition to outstanding resources and an exciting research environment, we offer an attractive salary and benefits. For prompt, confidential consideration, please forward resume and indication of position desired to: Mr. R. Blackburn, Schering-Plough Research, Box D88-73, 60 Orange Street, Bloomfield, NJ 07003. We are an equal opportunity employer.

What you have in mind, we put in action.
ICl Americas Inc., a diversified chemical company with sales in excess of $4 billion, has an excellent opportunity in the Regulatory area of our Agricultural Products Group.

The position requires an M.S. or Ph.D. in animal/plant ecology, zoology, wildlife biology, aquatic biology or environmental sciences or a B.A degree with a minimum 3 years practical field experience ideally as a biologist or ecologist doing pesticide research. Regulatory experience is very desirable but not essential.

Our modern facilities are located in a pleasant suburban setting near Wilmington, Delaware, where we offer career growth in a professional environment. Send resume including salary history to H.P. McKenry, ICI AMERICAS INC., Wilmington, DE 19897. Equal opportunity employer, M/F.

Applications are invited for a faculty position in

**EXERCISE AND SYSTEM PHYSIOLOGY**

at the Swiss Federal Institute of Technology in Zurich.

Duties of the new professor include teaching exercise physiology to physical education students as well as system physiology to students of pharmacy, biology and environmental natural sciences. He is expected to develop an active research program in which undergraduates can participate and to supervise graduate biology students in their thesis work.

Candidates will have the M.D. or Ph.D., an outstanding research record in the field of exercise physiology and the ability to perform and direct high quality research. Willingness to cooperate with colleagues within and outside the Swiss Federal Institute of Technology is most important.

Applications with curriculum vitae and list of publications should be submitted before March 31, 1990, to the President of the ETH Zurich, Prof. Dr. H. Bühlmann, ETH-Zentrum, CH-8092 Zurich.
Postdoctoral Scientist-Protein Biochemistry

At SmithKline Beecham Pharmaceuticals you'll collaborate with some of the world's finest scientific minds in an effort to discover and publish breakthrough research findings.

As a Postdoctoral Scientist within our Protein Biochemistry Department, you'll be responsible for performing research in one of the following areas: folding and oxidation of recombinant proteins; proteins involved in viral regulation, protein, structure and function studies or delivery of protein and peptide pharmaceuticals.

To succeed, you'll need a recent Ph.D. in Biochemistry, Enzymology or Protein Chemistry plus the motivation and people skills to conduct innovative research in a multidisciplinary, dynamic environment.

We offer an excellent salary and comprehensive benefits. For confidential consideration, send your resume and salary requirements to: Barbara Schwartz, S0116, Senior Employment Administrator, SmithKline Beecham Pharmaceuticals, P.O. Box 1539, King of Prussia, PA 19406-0939. Equal Opportunity Employer, M/F/H/V.

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Research Scientist - pneumology

A scientist, qualified to doctorate or PhD level, is required to contribute to the discovery of novel medicines for the treatment of bronchial diseases. Knowledge of experimental pharmaceutical models is essential and experience within the pharmaceutical industry would be a definite advantage.

Please send a handwritten letter of application, and CV to Media-System, 6 impasse des Deux-Cousins, 75849 Paris Cedex 17, France. Please quote reference 68098 on the envelope.

The Science Writing Fellowship Program

at the Marine Biological Laboratory, Woods Hole, MA

This Summer, Look at Science from the Inside Out!

*Program: A limited number of 4- and 8-week Fellowships are available at the Marine Biological Laboratory this summer for science reporters, editors, educators, and public policy makers. Fellows follow laboratory sessions and lectures of advanced graduate courses in the biological sciences, work hand-in-hand with laboratory investigators, and often are given research projects of their own. The program is introduced by a 5-day hands-on laboratory course designed to acquaint Fellows with molecular and cellular laboratory techniques. (The laboratory course is open to a few additional reporters who cannot undertake the full program.)

*Eligibility: Applicants must be professional science reporters, editors, educators, or public policy makers with at least two years' experience. Preference will be given to print or broadcast journalists with staff positions, although freelancers will be considered. Applications from minority group members and women are strongly encouraged (some funding is available for under-represented minorities).

*Faculty: Program Directors: Byron Waksman, M.D., New York University; Robert Goldman, Ph.D., Northwestern University; and Boyce Rensberger, M.S., The Washington Post.

Deadline for Applications: March 1, 1990

*For information and application contact: Pamela Clapp, Science Writing Fellowship Program, Marine Biological Laboratory, Woods Hole, MA 02543. Tel: (508) 548-3705, ext. 428.
We're putting a lot of thought into development.

The quest for memory-improving drugs is one of the most critical areas of medical research today. And Parke-Davis is once again in the forefront. At our pharmaceutical research laboratories in Ann Arbor, Michigan and Morris Plains, New Jersey, we're spending millions of dollars on research to help conquer today's fourth leading killer, Alzheimer's Disease.

But that's not all we're doing. Our $200 million annual commitment to large-scale drug discovery is stronger than ever and spans 11 major therapeutic areas that include: anticancer agents, cardiovascular and respiratory diseases, and disorders of the central nervous system.

As dynamic world leaders in preclinical and clinical R&D, we're concentrating on speeding up the drug delivery process by applying the most sophisticated computerized technology and working hard to advance the state-of-the-art in CADD. Within our ultra-modern research environment, we encourage independent research, stimulate self-development and reward responsible risk-taking. Parke-Davis is where you can put your best ideas to work and make memorable contributions to the art of research.

Clinical Scientist

contributes to protocol design, budget negotiation and the identification of potential field investigators as well as in the monitoring of ongoing trials within the region for investigational drugs in all therapeutic categories. Successful candidates should possess the equivalent of graduate-level training (MS, PhD, Pharm D, etc.) in life sciences with a sound understanding of several therapeutic areas. Prior pharmaceutical industry experience, particularly in clinical research is highly desirable. Outstanding oral and written communication skills are essential.

Neuroscientist

the successful applicant will join an experienced multidisciplinary team of dedicated scientists working on novel treatments for human neurodegenerative diseases including Alzheimer's Disease. Candidates will possess a PhD in a neuroscience related field. Experience in assessment of the biological and molecular changes accompanying neuronal death and degeneration, excellent written and oral communication skills, and ability to work as part of a team are required. Preference will be given to candidates experienced with aberrant processing of neuronal proteins in the central nervous system.

Associate Scientist

responsible for the development and characterization of "in vivo" animal models of arthritis. The position requires a BS/MS degree with five years of post-college laboratory experience in the areas of bone/cartilage/connective tissue. Experience with histopathological and radiological techniques for the assessment of joint damage is essential. Surgical skills and experience working with small animals are desirable.

Biostatistician

involves working with physicians, designing experiments, analyzing data from clinical trials and preparing comprehensive statistical reports of the results. Candidates will possess a recent PhD or equivalent in statistics. Strong consulting and communication skills, and good working knowledge of a scientific computer language and/or the statistical package SAS are required.

To explore your future on the frontier of medical research, send your resume or curriculum vitae, in confidence, to: Mr. Robert Gaskin, Parke-Davis, 2800 Plymouth Road, Ann Arbor, MI 48105. An equal opportunity employer.
RESEARCH ASSOCIATE BIOCHEMISTRY

Amgen is an innovative leader in the discovery and development of human pharmaceuticals through applied biotechnology. We have an immediate opportunity for a B.S. or M.S. level scientist to contribute to on-going research efforts in the identification of novel hematopoietic growth factors as well as comparing and characterizing recombinant and natural proteins.

Qualified candidates for this position must have a B.S. or M.S. in Cell Biology, Biochemistry or a related discipline and a minimum of two years’ experience in mammalian cell culture and general biochemical techniques. Familiarity with immunological and biological assays for the quantification of biological activity is essential.

Amgen offers a stimulating and challenging research environment on the leading edge of biotechnology 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 a company that places a high priority on its human resources, please send a resume or CV, in confidence, to:

AMGEN, INC.
Recruitment, Dept. #507
Amgen Center
Thousand Oaks, CA
91320-1789

Equal Opportunity Employer

COMPUTATIONAL CHEMISTRY

The following positions are available to outstanding individuals for challenging opportunities in molecular design and basic computational chemistry research.

- SENIOR SCIENTISTS — PROJECT LEADERS
- POSTDOCS
- SCIENTIFIC PROGRAMMERS
- SCIENTIFIC SUPPORT SPECIALIST

Background in physical chemistry, quantum chemistry, biochemistry, X-ray crystallography or NMR and experience using Computer Assisted Molecular Design software desired.

BIOSYM develops software tools and performs basic research for solving a variety of fundamental problems in molecular biology, drug design and chemistry. Research areas include peptide, protein, DNA and lipid modeling, force field parameterization, and electrostatics. Leading companies collaborate with us in projects to improve the rigor of calculations including consortia for the development of force field parameters and for the development of software tools for polymers. Our current programs (Discover, Insight, Homology, DMol, DelPhi, and Probe) are used in over 250 laboratories worldwide.

Interested candidates should send CV, copies of transcripts and three letters of reference to:

BIOSYM Technologies, Inc.
Personnel
10065 Barnes Canyon Road
San Diego, CA 92121
EOE M/F/H/V

Laboratory Supervisor

As the director of operations in our DNA Diagnostic Laboratory, this individual is accountable for delivering the highest quality results and developing the laboratory to maintain IG’s leadership position. Managerial responsibility for current laboratory members and training of new members is involved as is the opportunity to pursue applied research questions. The qualified applicant must have a BS and MS (or equivalent) in a biological science, 4-5 years of experience in human and molecular genetics and the ability to supervise effectively. Experience in a clinical diagnostic laboratory is desirable.

Integrated Genetics offers an excellent compensation and benefits package, including equity participation, a 401(k) Plan with a company match, tuition assistance and medical, dental, life and vision care insurance. For immediate consideration, please call us at 1-800-255-7357 and speak with Steve Grossman. Alternatively, please send your resume to: Director, Human Resources, Dept. #232, Integrated Genetics, One Mountain Road, Framingham, MA 01701.

An equal opportunity employer

SENIOR SCIENTIST POSITIONS

Department of Drugs

The American Medical Association, one of the nation’s leading advocates of better public health, is currently seeking two Senior Scientists to join our challenging, progressive Department of Drugs.

The successful candidates will review and evaluate pertinent literature, consult with various experts, and organize and present acquired medical knowledge for the AMA’s Drug Evaluations. Additional responsibilities will include: serving as an AMA topical resource professional; representing the Department of Drugs at national meetings; and aiding in the development of AMA drug legislation positions.

Candidates for both positions must have an M.D. or Ph.D. in pharmacology (or related biomedical science) or PharmD degree. Knowledge/training/experience in general pharmacology is essential. Individuals with a background in metabolic diseases/endocrinology or infectious diseases are of particular interest. Publication and professional experience in academic, governmental, or industrial pharmacology is highly desired.

In addition to the challenge of these positions, the AMA offers a competitive compensation/benefit package and national visibility. Please send resume and salary history to: Div. of Placement, Dept. PP/SB-1690, AMERICAN MEDICAL ASSOCIATION, 535 N. Dearborn Street, Chicago, IL 60610. Equal Opportunity Employer.
**Fermentation Specialist**

A position is currently available for a Microbial Physiologist experienced in the optimization of growth and expression condition for recombinant microorganisms. The successful candidate will be involved in the development and improvement of fermentation processes that result in the production of heterologous proteins. Responsibilities will include investigation into the physiology associated with heterologous expression. Knowledge of the general analytical techniques used in the assessment of microbial fermentations is essential. Experience in the area of protein chemistry will be advantageous. Qualified applicants will have a BS/MS with 5 to 7 years' experience or a Ph.D. with 0-2 years' experience.

Please send resumes in confidence to Peter Lasky, Genetics Institute, One Burtt Road, Andover, MA 01810.

**Molecular Biologists**

Several positions are currently available at the Bachelor's, Master's and Ph.D. levels. Two positions will be involved with developing PCR and molecular techniques to screen for viral contaminations and oncogene activation. These positions require a Master's or Ph.D. in a related field and the ability to work independently. A third position will be involved with colony stimulating factor research within our Hematopoietic laboratory. This position requires a Bachelor's or Master's degree. All positions require broad in-depth knowledge of general molecular biology techniques, including but not limited to constructing and screening cDNA libraries, PCR cloning, plasmid preps and restriction enzymes.

Please send resumes in confidence to Sheri Rist, Genetics Institute, 87 Cambridge Park Drive, Cambridge, MA 02140. Genetics Institute offers an exceptional compensation package including, competitive salaries, comprehensive benefits and equity participation. An Equal Opportunity Employer M/F/H.

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**RESEARCH TOXICOLOGIST**

Searle, a worldwide leader in pharmaceutical research and development, has an outstanding growth opportunity for a Research Toxicologist.

The skilled professional we select will conduct and oversee a full spectrum of pre-clinical studies and assure compliance with Good Laboratory Practice regulations, standard operating procedures, study protocols and accepted laboratory practices. Specific duties include performing hands-on study procedures and supervising the conduct of various study activities, preparing draft study protocols and reports, and contributing to the development of new study techniques.

Qualified candidates will possess a Master's degree with 2 years experience or a Bachelor's degree and 4 years experience. Experience in the conduct of toxicity studies as well as good written and oral communication skills are required.

Join us as we take the pharmaceutical industry into the 1990's and beyond. Consider, please contact: In Eile, Human Resources, Dept. K61, 4901 Searle Parkway, Skokie, IL 60077.

An Equal Opportunity Employer M/F/H.

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**ABBOTT LABORATORIES**

With a demonstrated commitment to R&D, Abbott Laboratories' Pharmaceutical Products Division continues to lead in the development and manufacture of anti-infective, cardiovascular and anti-convulsant/neurological products. Today, due to ongoing expansion, we offer the following opportunities within our Drug Metabolism Department.

**PHARMACOKINETICIST**

Primary responsibilities include design, analysis and reporting of animal and clinical pharmacokinetic studies. Capabilities in the development and supervision of analytical procedures for drugs and metabolites are desirable. Qualifications include a Ph.D. in Pharmacokinetics, Biopharmaceutics or related disciplines, with 2-6 years' experience. The position requires a command of kinetics, drug metabolism, physiology, statistics, computing and chromatographic/bioanalytical techniques. Writing skills are essential. Job #7612.

**BIOANALYSTS**

Responsibilities involve development and validation of novel analytical methods for drugs and metabolites in biological matrices. We require a Ph.D. or equivalent with at least 5-10 years of laboratory experience and supervision of analytical data generation. Knowledge of HPLC, GC and sensitive detection/derivatization techniques is essential. Experience in chemical kinetics, pharmacokinetics, statistics and computer systems is required. Familiarity with pharmaceutical formulation, metabolism, immunoassay, and peptide analysis is also desired. Job #7612-A.

**METABOLISM INVESTIGATOR**

Responsibilities involve the design and implementation of studies investigating the absorption, distribution, metabolism and excretion of radiolabeled drugs in laboratory animals and humans. The individual we seek will have a Ph.D. or equivalent experience in Biochemistry, Pharmacology, Medicinal Chemistry or Toxicology with a minimum of 1-3 years experience. Experience in TLC, HPLC and GLC methods and derivatization techniques is essential. A background in-vivo drug disposition studies is desired. Job #7612-B.

**BIOMETALIST**

Responsibilities include developing methods for screening discovery compounds and metabolites in both in-vivo and in-vitro models. A Ph.D. or equivalent experience in Pharmacology, Biochemistry, Toxicology or Medicinal Chemistry is required along with a minimum of 1-3 years experience. Experience in HPLC and GC techniques is essential. Knowledge of drug metabolism and pharmacokinetics is also essential. Understanding of sensitive detection/derivatization techniques, especially fluorosence, chemiluminescence or electrochemistry would be an asset. Job #7612-C.

Abbott provides competitive compensation and benefits including profit sharing and a stock retirement plan. We are located in an attractive suburban area approximately 30 miles north of Chicago. Please send your resume, including salary history, with Job Number interested in to: Patricia Handy, Corporate Placement, Abbott Laboratories, 1 Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer.

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**MEETING BOUND?**

Abbott representatives will be at the American Association for the Advancement of Science February 15th-20th. To arrange an interview, please send a resume to Patricia Handy prior to the conference.
The University of Pennsylvania, children’s Hospi-
tal of Philadelphia is recruiting five faculty for the
Division of Cardiology:

RESEARCH CARDIOLOGIST, (M.D./Ph.D.): Developmental biology of the heart. Assistant Professor.

NONINVASIVE CARDIOLOGIST, (M.D.): To join noninvasive group assessing congenital heart defects. Experience in echocardiography, MRI. Assist/Assoc. Professor.


DEVELOPMENTAL BIOLOGIST, (Ph.D.): Research in cardiac embryology. Experience in growth factors, molecular biology techniques preferable. Assistant Professor.

PERINATAL CARDIOLOGIST, (M.D.): Fetal and neonatal cardiology with perinatal physiology research required. Molecular training desirable. Assistant Professor.

Send CV and references to:
James Huhta, M.D., Division of Cardiology Children’s Hospital of Philadelphia 34th Street & Civic Center Blvd. Philadelphia, PA 19104 University of Pennsylvania is an equal opportunity/affirmative action employer. Women and minorities are encouraged to apply.

The senior research officer position offers an exciting challenge to suitably qualified science or medical gradu-
ates to assist in the leadership of a group of early postdoctoral and Ph.D. students engaged in a broad based research program on the interferences. Research officer positions are available in work for several different exciting areas including interferon research, mitochondrial pathologies and aging, and glycoproteins in cancer. Applicants should be experienced in one or more aspects of advanced molecular biology such as gene and protein technology, immunology, or polysaccharide chemistry. Salary: research officer, $27,955 to $31,808 per annum; senior research officer, $32,197 to $34,841 per annum. Deadline for the above positions is 16 February 1990.

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The Arthropod-Borne and Infectious Diseases Labora-
tory (AID) invites applications for several pre- (B.S., M.S.) and postdoctoral (Ph.D.) fellowships. Support is provided by the MacArthur Foundation for studies in vector molecular biology and an NIH training program in clinical entomology, epidemiology, and parasitology. This training program involves 20 university faculty members and about 25 affiliate faculty in the United States and several laboratories nearby. The AID is a division for education, training, and research in modern molecular and quantitative epidemiologic methods as well as more traditional methods of disease control. The postdoctoral positions are available now. Contact: Dr. Barry J. Beatty, AIDL, Foothills Campus, Colorado State Uni-

VECTORS: Molecular Biology, Parasitology, Epidemiology

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VECTOR MOLECULAR BIOLOGY, PARASITOLOGY, EPIDEMIOLOGY

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The University of Pennsylvania, children’s Hospi-
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RESEARCH CARDIOLOGIST, (M.D./Ph.D.): Developmental biology of the heart. Assistant Professor.

NONINVASIVE CARDIOLOGIST, (M.D.): To join noninvasive group assessing congenital heart defects. Experience in echocardiography, MRI. Assist/Assoc. Professor.


DEVELOPMENTAL BIOLOGIST, (Ph.D.): Research in cardiac embryology. Experience in growth factors, molecular biology techniques preferable. Assistant Professor.

PERINATAL CARDIOLOGIST, (M.D.): Fetal and neonatal cardiology with perinatal physiology research required. Molecular training desirable. Assistant Professor.

Send CV and references to:
James Huhta, M.D., Division of Cardiology Children’s Hospital of Philadelphia 34th Street & Civic Center Blvd. Philadelphia, PA 19104 University of Pennsylvania is an equal opportunity/affirmative action employer. Women and minorities are encouraged to apply.

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POSITIONS OPEN

AUSTRALIA Monash University CENTER FOR MOLECULAR BIOLOGY AND MEDICINE RESEARCH OFFICERS/SENIOR RESEARCH OFFICERS

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James Huhta, M.D., Division of Cardiology Children’s Hospital of Philadelphia 34th Street & Civic Center Blvd. Philadelphia, PA 19104 University of Pennsylvania is an equal opportunity/affirmative action employer. Women and minorities are encouraged to apply.
The following research fellowships for those holding Ph.D. or M.D. degrees exist for periods of up to 4 years.

Cartilage Degradation in Arthritis
(Dr. A. Robin Poole)
A new position for work on the cleavage of type II collagen in experimental and human arthritis. Autoimmunity to Cartilage Proteoglycan in Arthritis
(Dr. A. Robin Poole)
A new position for work on autoimmunity to cartilage proteoglycan in animals and humans with arthritis.

Targetable Proteinase Inhibitors
(John S. Mort)
An ongoing project to express recombinant forms of proteinase inhibitors that have been modified to allow targeting to cartilage.

The research laboratory has a total staff of approximately 30 persons working on the biochemistry, molecular biology and immunology of cartilage development, structure, synthesis and degradation in health and arthritis. Applicants should write to the scientist indicated, providing a detailed curriculum vitae, together with the names of referees.

Salaries will be according to experience and qualifications.

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Applications are invited for appointment as Research Fellow in the Department of Orthopaedic Surgery. Candidates should possess a PhD. Degree in Biochemistry and preferably have some research experience in biochemistry of soft tissues, cartilage and bone, quantitative morphometry and immunochemical work.

The successful candidate will be required to assist in the running of the biochemistry laboratory in the Department. The appointment may be for up to three years at a time.

Gross monthly emoluments will range from S$3739 to S$350. (US$1 = S$1.93 approx.) The commencing salary is dependent upon the qualifications and experience of the appointee.

Leave and medical benefits will be provided. Depending on the type of contract offered, other benefits may include: provident fund benefits or an end-of-contract gratuity, a settling-in allowance of S$1,000 or S$2,000, subsidised housing at nominal rentals ranging from S$100 to S$216 p.m., education allowance for up to three children subject to a maximum of S$10,000 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to Singapore.

Candidates should write to the Director, Personnel Department, National University of Singapore, 1 Kent Ridge Crescent, Singapore 0511, giving their curriculum vitae and the names and addresses of three referees who can comment on their research ability and/or professional competence.

Enquiries may also be sent through BITNET to: PERSDEPT @ NUSVM, or through Telefax: (65) 7783948.

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The American Association for the Advancement of Science (AAAS) invites applications for ten environmental science and engineering fellowships available for summer 1990. The Fellows will work at the U.S. Environmental Protection Agency (EPA), with the Office of Research and Development, in Washington, DC, to assist in identifying and assessing the significance of long-range environmental problems and opportunities. The ten-week fellowships will run June 4 through August 10, 1990.

Applicants must be postdoctoral to mid-career scientists and engineers. Candidates may be from the physical, biological, or behavioral sciences, or any field of engineering or other relevant professional fields. Fellows are expected to be critical thinkers, articulate, adaptable, and able to work with a variety of people from different professional backgrounds. Applicants must be residents of the U.S.

The 1990 Environmental Fellows will receive a stipend of $800 per week and a nominal additional amount for temporary relocation expenses and travel in connection with the fellowships.

A detailed, future-oriented research project will be conducted by each Fellow which is of mutual interest to the Fellow and EPA. A project report will be submitted at the completion of the summer's work. Typical areas of research interest within EPA include: environmental risk assessment; biological pesticides; acid deposition; mobile source air pollution; oxidants, gases and particles; global climate; municipal waste water and spills; drinking water; hazardous waste; chemical testing and assessment; pesticides; radiation; and energy.

Deadline for applications is March 1, 1990. The awards will be announced by April 30, 1990. The continuation of this program, now in its 10th year, is contingent on the availability of funds. For further information and specific application requirements contact:

Environmental Science and Engineering Fellows Program
American Association for the Advancement of Science
1333 H Street, NW, Washington, DC 20005
202/326-6600
FEELWPHSHS

CLINICAL AND GERIATRIC PHARMACOLOGICAL FELLOWSHIPS. Applications from Board-eligible/Board-certified physicians are solicited for positions starting 1 July 1990 and 1 July 1991 in the Brown University Department of Medicine. Areas of active research include cardiology, endocrinology, and geriatric pharmacology. Interested applicants should send curriculum vitae and statement of research interests to: Dr. Charles L. Hanes, Department of Medicine, Box 1, Providence, RI 02908.

FEELWPHSHS

POSTDOCTORAL FELLOWSHIP, CLINICAL CHEMISTRY. For individual with a Ph.D. or M.D. and outstanding qualifications. Program offers opportunity to pursue advanced training in a modern, progressive laboratory in an active university medical setting. Please contact: Dr. Phillip W. Tietz, Department of Pathology, University of Kentucky Medical Center, Lexington, KY 40536.

PREDICTORAL FELLOWSHIPS IN WASTE MANAGEMENT. Fellowships for fall 1990 have focus areas in environmental policy, environmental biotechnology, and waste management. Applications due 15 March 1990. Write: Dr. Larry W. Jones, Waste Management Research, 337 South Stadium Hall, The University of Tennessee, Knoxville, TN 37996-0710.

WUMHSTY

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ANNOUNCIES

ARE YOU INTERESTED IN BEING A PI? The advent of the shuttle Program has produced a new era for space biology that offers exceptional opportunities for research. NASA is offering several RESEARCH ASSOCIATE awards for scientists to work in laboratories capable of providing advice and facilities relevant to space biology. The awards vary from $18,000 to $22,000 based on experience. They are for a 12-month period with the possibility of renewal. Proposals are due 28 February 1990. The funding will begin any time from 1 June to 1 October 1990. Eligible are postdoctoral U.S. citizens. For information, contact: Dr. J. X. Musacchia, Chairman, NASA Award Committee, Department of Physiology and Biophysics, School of Medicine, Room 111SA, Health Sciences Center, University of Louisville, Louisville, KY 40292, or Dr. Thora W. Halstead, Research Associate Program, Life Sciences Division, NASA Headquarters, Washington, DC 20546. For application forms, contact: Dr. Musacchia at the address above. Telephone: 502-588-5554.

COURSES AND TRAINING

DOCTORAL PROGRAM IN MOLECULAR AND CELLULAR BIOLOGY AND PATHOBIOLOGY. New degree offered fall 1990. The program seeks qualified candidates interested in fundamental molecular and cellular biology and its application to disease. Stipends of $9000 available on a competitive basis. Contact: Director, Medical Biology Program, University of Pittsburgh, 3700uron Avenue, Pittsburg, PA 15261.

FOSSIL ENERGY POSTGRADUATE RESEARCH PROGRAM. Opportunities at Department of Energy Technology Centers in Morgantown, West Virginia, and Pittsburgh. Research positions in the areas of physical sciences, engineering, and microbiology available. Degree within last 3 years required, as is U.S. citizenship or PRA status. Contact: Fossil Energy Postgraduate Program, School/Engineering Education Division, Oak Ridge Associated Universities, Box 2, Oak Ridge, TN 37831-0117. Telephone: 615-576-3456.

GRADUATE STUDIES IN BIOCHEMISTRY AND MOLECULAR BIOLOGY DEPARTMENT OF BIOCHEMISTRY UNIVERSITY OF ILLINOIS AT CHICAGO. Graduate fellowships or assistantships are provided for all students in the program. Research interests include molecular biology and genetics (development and differentiation); signal transduction (ion channels, receptor, enzyme, protein kinase); protein engineering (enzyme active sites and modification); and molecular medicine (heart disease, cancer, muscle dysfunction). For further information and applications, please write or call: Graduate Committee Chair, Department of Biochemistry (MC-C536), University of Illinois College of Medicine, 1853 West Polk Street, Chicago, IL 60612. Telephone: 312-996-7670.

MARKETPLACE

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Custom synthesized DNA: 1 umole scale at $5 per base. $25 set-up fee per sequence. Economical prices for purification and larger scales. Stock primers and linkers at $50 for 1 LD.

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