The Animal Science Department, Iowa State University, seeks to fill the following tenure-track faculty positions. All positions emphasize research, teaching, and graduate education.

**POSITIONS OPEN**

**CAREER OPPORTUNITIES**

**SCIENCE publishes each Friday, except the last Friday of the year, and is mailed on issue date. Personnel advertise positions with the understanding that the advertiser does not discriminate among applicants on the basis of age, race, religion, color, national origin, handicap, or sexual preference. SCIENCE reserves the right, in its discretion, to decline to publish advertisements.**

**LINE CLASSIFIED ADVERTISEMENTS**

**DEADLINE:** Thursday, 10 a.m., 2 weeks prior to issue date. Advertising is accepted only in writing.

**POLICIES:** Advertisements 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 positions: Openings and Employment Agencies, Fellowships, Situations Wanted, Courses and Training, Meetings, Announcements, and Marketplace. Advertisers should specify classification desired. SCIENCE reserves the right to decline classification requests which it believes may be misleading to readers.

**RATES:** $41 per line, $140 per minimum, per week. One line equals 52 characters and spaces; centered headings equal 22 characters and spaces per line. No charge for use of boxed ad. Agency commission for ads less than 40 lines. To ESTIMATE ad cost, structure ad copy as follows:

- A single column contains 52 characters per line.
- Two columns contain 104 characters per line.
- Three columns contain 156 characters per line.
- Four columns contain 208 characters per line.
- Five columns contain 260 characters per line.
- Six columns contain 312 characters per line.
- Seven columns contain 364 characters per line.
- Eight columns contain 416 characters per line.
- Nine columns contain 468 characters per line.
- Ten columns contain 520 characters per line.
- Eleven columns contain 572 characters per line.
- Twelve columns contain 624 characters per line.

To calculate your ad's approximate cost, multiply number of lines by $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. Purchase orders must allow for at least fractional ad, $41 per column.) SCIENCE cannot provide proofs of typeset ads.

**PREPAYMENT DISCOUNT:** A 3% cash discount is granted to advertisers prepaying invoice in full. In U.S. dollars by checks drawn on U.S. banks is required for all prepaying orders.

**BOXES AND LOGOS:** Any single-column classified ad can be boxed and/or published with logo. No extra production charge for use of box or logo. For boxed ads, one line equals 46 characters and spaces; two additional lines will be added to box to allow for top and bottom margins. Logos billed according to number of lines needed to accommodate logo.

**SITUATIONS WANTED ADs:** As a service to AAAS members, SCIENCE offers placement of Situations WANTED ads for individuals seeking full-time or part-time positions. A blind box may be used. Ads must be submitted in writing with text of 20 words or fewer. UrbanBox, 104th and Potomac, Washington, DC 20005.

**CANCELLATIONS:** Deadline for cancellations is 10 a.m., Tuesday, 10 days prior to issue date.

Address ad copy or requests for information to:

**SCIENCE Classified Advertising**
1333 H Street, NW, Room 940
Washington, DC 20005
Telephone: 202-323-6555
FAX: 202-682-0816

**MARKETPLACE AND DISPLAY PERSONNEL**

For rates, deadlines, and information about fractional display ads (1/8 page and larger) and all Marketplace listings of available products and services, contact:

Scherago Associates, Inc.
1515 Broadway
New York, NY 10036
Telephone: 212-730-1050

**RESPONSES TO EMPLOYMENT ADS**

Applicants should read Positions Open ads carefully in order to submit all required material when responding, and should especially check for any stated deadline for receipt of applications. SCIENCE encourages advertisers to consider applicants for positions to investigate employment laws, non-discrimination requirements, and cultural differences in the country advertising for employees.

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

**Box (give number)**
Science Classified Advertising
1333 H Street, NW, Room 940
Washington, DC 20005

**PERSONNEL PLACEMENT 1567**

22 JUNE 1990
University of Maryland at Baltimore, Division of Endocrinology seeks Ph.D. at the ASSISTANT PROFESSOR level to supervise the endocrine cell technology laboratory. Prior experience with radioimmunoassays required. Administrative experience desirable. Salary negotiable. Curriculum vitae and three or more letters of reference to: F. W. Widrich, M.D., Head, Division of Endocrinology, Room N3W50, 22 South Greene Street, Baltimore, MD 21201 by 1 August 1990. Equal Opportunity Employer.

HARVARD MEDICAL SCHOOL
CANCER RESEARCH DIVISION
BOSTON, MASSACHUSETTS

ASSISTANT PROFESSOR OR POSTDOCTORAL appointments (two). (1) Enzyme chemist with an interest in molecular biology to work on protein kinases. (2) Protein chemist. Non-covalent protein-protein interactions are of interest. Salary negotiable. Submit curriculum vitae, summary of experience, and three letters of recommendation to: Melvin J. Glinsky, M.D., Children's Hospital, Enders Building, 320 Longwood Avenue, Boston, MA 02115.

ASSISTANT/ASSOCIATE PROFESSOR. Department of Veterinary Pathology, School of Veterinary Medicine, Louisiana State University (LSU), invites applications for assistant or associate professor faculty position in experimental pathology. Applicants should have experience in pathology at molecular and cellular level. Ph.D. degree in veterinary pathology is desired. Primary duties: development of an independently funded research program and graduate instruction. Salary commensurate with experience. Hire date: May 1990, or until suitable candidate is selected. Submit curriculum vitae, names of references, and copies of publications to: Dr. H. W. Head, Head, Department of Veterinary Pathology, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA 70803. LSU is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT, ASSOCIATE OR FULL PROFESSOR LEVEL POSITIONS IN VASCULAR CELL BIOLOGY

Two new positions are open in basic biomedical research on the staff of the Cleveland Clinic Research Institute. The positions would establish independent research programs as well as collaborative ties with current staff scientists. Areas of research interest include regulation of vascular cell gene expression, intracellular signal transduction, cell adhesion molecules and extracellular matrix, vascular growth, and regulatory factors affecting vascular biology. Applicants must have a Ph.D. and demonstrate the ability to establish an independent research program. Applicants should submit curriculum vitae, a statement of research interests, and three letters of recommendation to: M. B. Nikitovich-Winer, Chair, Department of Anatomy and Neurobiology, University of Kentucky Medical Center, Lexington, KY 40536-0084.

THE UNIVERSITY OF CALGARY
MOLECULAR IMMUNOLOGIST/CENTRE FOR IMMUNOLOGY

Applications are invited for a tenure-track position at the ASSISTANT OR ASSOCIATE PROFESSOR level in the area of molecular immunology. Responsibilities include teaching, advising graduate students, and conducting research. Appointments will be made at the beginning of the fall semester, the time to be determined by the successful candidate and the Department. Submit curriculum vitae, names of three references, letter of intent, and samples of research papers to: Dr. Roy Kamen, Chair, Department of Microbiology and Immunology, University of Calgary, Calgary, Alberta, Canada T2N 1N4. Closing date for applications is 31 January 1990.

BIOLOGY. St. Andrews College invites applications for a 1-year position beginning 28 August 1990. Primary duties: teaching histology and general biology coursework and upper level courses in at least two of the following areas: plant taxonomy, ecology, plant morphology/diversity, and plant anatomy/physiology. Qualifications: ABD required. Ph.D. preferred. The successful candidate will also be expected to serve as herbarium and greenhouse manager. Consideration of applications submitted by 1 July 1990. Send a letter of application, curriculum vitae, and three letters of recommendation to: Dr. Dennis McCracken, Chair, MNHS Division, St. Andrews College, New London, NB, Canada, E5G 3C5. Aftirmative Action/Equity Employer.

BIOLOGY. West Chester University's Department of Biology has openings for the 1990-91 academic year for an ECOLOGIST and a HUMAN PHYSIOLOGIST. These 1-year temporary positions may be renewed for a second year. Ecology: to teach field-based courses in ecology and population biology and laboratories in general biology. Human Physiologist: to teach laboratories in anatomy and basic physiology course, as well as laboratories in general biology. Both positions require a Ph.D. and teaching experience. Send curriculum vitae and names and phone numbers of three references, postmarked by 31 July 1990, to: Dr. Martha Potvin, Department of Biology, West Chester University, West Chester, PA 19383. Aftirmative Action/Equity Employer. Women and minorities are encouraged to apply.

RADIATION BIOLOGY/ CANCER BIOLOGIST

The Department of Radiation Medicine at Massachussetts General Hospital (MGH) has an opening for a cellular/molecular biologist to do research on chemical and biochemical mechanisms of radioprotection in mammalian cells and DNA. These studies are being pursued with a view to determining how improvements in cancer therapy might be achieved in the clinical setting. The research will be performed in a well-established, fully equipped laboratory in the Cox Cancer Center at MGH. The applicant will work closely with the radiobiology and radiocarbons laboratory at the Center, and within the research/academic complex of the biomedical community of the Boston area. Applicants are sought with a background in radiation biology, molecular biology, or molecular immunology. A Ph.D. is required. The salary level will be commensurate with the applicant's experience and qualifications. Send curriculum vitae and names of references to: Dr. Janet E. Lippman, Chair, Department of Radiation Medicine, Massachusetts General Hospital, Boston, MA 02114. Massachusetts General Hospital/Harvard University are Equal Opportunity/Affirmative Action Employers. Qualified women and minorities are encouraged to apply.
The United States Environmental Protection Agency is seeking a highly qualified candidate for the position of Deputy Director of the Atmospheric Research and Exposure Assessment Laboratory (AREAL) located in Research Triangle Park, North Carolina. This is a permanent full-time position with a salary range of $29,216-$76,982 per annum.

The AREAL, a component of the Office of Research and Development, is responsible for developing research and development policies regarding a major segment of the Agency’s programs in the areas of:

- Ambient Air Pollutant Levels and Exposure to Humans and Ecosystems
- Air Quality Monitoring Methods and Techniques, and Source Apportionment, Air Pollutant Transport, Transformation and Fate Models
- Source-to-Receptor Relationships Between Ambient Air Quality and Air Pollutant Exposures
- Long-term Research in Atmospheric Chemistry: Air Pollutant Fate, Transport, and Transformation Processes; Exposure Assessment: Analytical Chemistry; and Predictive Modeling

The incumbent must have experience in the following: planning, coordinating, evaluating, organizing, budgeting, and directing research and development programs, assisting in coordinating activities with representatives of foreign, state, municipal and federal agencies, industry, and academic and private organizations throughout the nation.

Applicants for this position must submit evidence of the following factors: 1) skill in planning, implementing, monitoring and reviewing both long and short-term scientific research programs; 2) skill in developing productivity and other effectiveness, efficiency standards; 3) skill in gathering and analyzing information; 4) skill in the utilization of human resources; 5) skill in the acquisition and administration of financial resources; 6) knowledge of federal procurement procedures; 7) skill in organizational representation and liaison; 8) skill in oral communication; 9) skill in supervising a multidisciplinary staff; 10) skill in written communication; and 11) skill in evaluating programs for effectiveness.

Please submit an SF-171 to: Rena Sawyer, Human Resources Management Division (MD-29), US EPA, Research Triangle Park, NC 27711; or for further information, call Rena Sawyer at (919) 541-3877. EPA is an Equal Opportunity Employer.
**POSITIONS OPEN**

**BIOCHEMIST**
Alliance Pharmaceutical Corp. is engaged in a growth factor research and development effort. A position within the biochemistry group is available for a maternity (or equivalent) period. The ideal candidate is genuinely interested in the discovery and evaluation of possibly novel and useful cell effect molecules. This person should have a Ph.D. and be willing to contribute to the group in a creative manner. Please forward curriculum vitae with academic and professional experience to:

Philip Dehanya, Ph.D.,
Manager, Biochemistry Laboratory
Alliance Pharmaceutical Corp.
P.O. Box 567
Otsiville, NY 10963

Otsiville, New York, is in scenic Orange County, about 2 hours from New York City.

**PROFESSOR OF MATERNAL AND CHILD HEALTH**
The Harvard School of Public Health is seeking a professor and CHAIRPERSON of Maternal and Child Health. Candidates must hold a doctorate in a discipline relevant to maternal and child health studies (for example, child development, obstetrics, pediatrics, epidemiology, nursing, psychology, anthropology, nutrition, and social work). Experience in and knowledge of state, local, and federal maternal and child health programs and agencies that are responsible for maternal and child health agencies is desirable. Candidates should present a solid record of research accomplishment, evidence of excellent teaching skills, demonstrated ability to combine basic and applied research, and to work productively in interdisciplinary teams. Proven ability to provide leadership and vision in the development of maternal and child health programs is necessary. Along with background and experience in a maternal and child health area, commitment to professional education in public health and general knowledge of the field is desirable. Expressions of interest will be sent to: Maternal and Child Health Search Committee, Office of the Dean, Harvard School of Public Health, 677 Huntington Avenue, Boston, MA 02115. The search committee is particularly interested in hearing from qualified women and members of minority groups.

**DEAN COLLEGE OF PHARMACY**
**UNIVERSITY OF GEORGIA**
The University of Georgia invites nominations and applications for the position of Dean of the College of Pharmacy. Professional qualifications and special competencies desired include an earned doctorate, background and experience in pharmacy and/or the pharmaceutical sciences, leadership abilities, and a successful record of scholarly contributions commensurate with the rank of full professor. Completed applications will include a letter of reference; names, addresses, and telephone numbers of five professional references; and curriculum vitae. These materials should be sent by 1 September 1990 to: David P. Anderson, Chairman, Search Committee for the Dean of the College of Pharmacy, College of Veterinary Medicine, University of Georgia, Athens, GA 30602. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.

**DIRECTOR BIO-BEHAVIORAL SCIENCES AND MENTAL DISORDERS**
The Institute of Medicine of the National Academy of Sciences is seeking a director for its Board on Bio-Behavioral Sciences and Mental Disorders. Responsibilities include directing the division, managing and developing programs, supervising staff, and coordinating activities. Requires an M.D. and/or Ph.D. or equivalent in the neurosciences or behavioral science field, at least 6 years of experience in the mental health field and health policy issues, demonstrated technical expertise in: neuro-science or behavioral science field, management and staff supervision, administration of program financing and budgets, and organization of projects. Excellent oral and written communication skills, working knowledge of federal agencies, private foundations, and other donor resources required. Please send résumé in confidence to: Institute of Medicine, NAS 325 (QB), 2101 Constitution Avenue, NW, Washington, DC 20418. Equal Opportunity Employer.

**DIRECTOR OF RESEARCH (DOR), Darton VA Medical Center**
Must be productive research scientist. Physician preferred but Ph.D. applicants considered. DOR administers the facility's research programs and assists investigators. Must qualify to faculty appointment for Wight State University School of Medicine. Send curriculum vitae to: Dr. Thomas Martshe, Chairman, Search Committee (151), VA Medical Center, 1600 S. Crandall Ave., Garden City, KS 67846. Telephone: 513-268-6511, Extension 2880, for more information.

**An Equal Opportunity Employer.**

**LABORATORY DIRECTOR**
**LAWRENCE & DANA ROSS LABORATORY**
**UNIVERSITY OF MINNESOTA**

DOR administers the facility's research programs and assists investigators. Must qualify to faculty appointment for Wight State University School of Medicine. Send curriculum vitae to: Dr. Thomas Martshe, Chairman, Search Committee (151), VA Medical Center, 1600 S. Crandall Ave., Garden City, KS 67846. Telephone: 513-268-6511, Extension 2880, for more information.

**An Equal Opportunity Employer.**

**DIRECTOR OF RESEARCH (DOR)**,
**Darton VA Medical Center, Must be productive research scientist.**

**PHYSICAL OCEANOGRAPHER**
**AND DIRECTOR, SOUTHWEST, FLORIDA COASTAL RESEARCH CENTER**

Mote Marine Laboratory, an independent, nonprofit institution dedicated to marine research and education, invites applications to serve as Director of the Southwest Florida Coastal Research Center. Applicants must have a Ph.D., experience in research management, and a strong record of interdisciplinary and collaborative ventures. The successful applicant will develop research focusing on coastal processes and coordinate center activities on needs of the southwest Florida coastal region. Send résumé to: Dr. Richard H. Pierce, Director of Research, Mote Marine Laboratory, 1600 Thompson Parkway, Sarasota, FL 34236 by 15 July 1990.

**ECOTOXICOLOGY**
**LABORATORY STUDY DIRECTOR**

Exxon Biomedical Sciences, Inc., has an immediate opening for a qualified individual as a study director in our Ecotoxicology Laboratory. The state-of-the-art laboratory includes facilities to culture and test marine and freshwater organisms. Acute and chronic tests of products and effluents are conducted in accordance with GLP and appropriate regulatory guidelines. The position requires the individual to act as a study director with full responsibility for the study design, development of protocols, review and evaluation of the data, and final review and approval of reports. In addition, the position involves some administrative duties including scheduling and coordination of studies, training lab personnel, monitoring ongoing studies, etc. The successful candidate will be able to work independently with GLP related methods and have 2+ years of experience in an aquatic testing facility. A working knowledge of TSCA/FIFRA GLPs, statistical methods, PC and mainframe computers is desired. Please forward résumé to:

Christine Ramos, Human Resources
Exxon Biomedical Sciences, Inc.
Mettricks Road, CR 2350
East Millstone, NJ 08875-2350
Equal Opportunity Employer M/F/H/V.

**EXPERIMENTAL MYCOLOGIST**
The Department of Botany/Plant Pathology invites applications for an experimental mycologist position at the ASSOCIATE/ASSOCIATE PROFESSOR level (academic year, full-time, tenure system). Appointee will develop and maintain active research programs in molecular and/or physiological research and teach undergraduate and graduate mycology. Applicants should have a Ph.D. degree and postdoctoral research experience in molecular, cellular, or medical mycology. Previous teaching experience desirable. Interactions with other departments and programs and publications with graduate students will be expected. Application deadline is 15 August 1990. Send statement of career objective, curriculum vitae, and three names of references to: Chairperson of Search Committee, Department of Botany/Plant Pathology, Michigan State University, East Lansing, MI 48824. Michigan State University is an Equal Opportunity/Affirmative Action Employer.

**UNIVERSITY OF MINNESOTA**

**POSITIONS OPEN**

University of Minnesota entry-level tenure-track position in ENVIRONMENTAL ENGINEERING MIAMI-FALLS (Available 16 December 1990). Send résumé and names of three or more references to: Dr. W. Maier, Department of Civil and Mineral Engineering, 300 Pillsbury Drive S.E., Minneapolis, MN 55455.

Application deadline 30 September 1990. The University of Minnesota is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

**FACULTY POSITION**
**MICROBIOLOGY AND IMMUNOLOGY**

Applications are invited for two tenure-track ASSISTANT PROFESSORSHIPS at the rank of assistant professor in microbiology and immunology. Applicants should have a background in virology, immunology, prokaryotic biology, and cell biology utilizing molecular and/or cellular techniques. The aims of the research programs should focus on the pathogenesis of infectious diseases and/or gene expression of normal and neoplastic cells. Candidates should possess a Ph.D. or M.D. with proven ability or high potential for an independently funded, productive research program. Send curriculum vitae, bibliography, and statement of research and teaching interests to: John M. Lehman, Ph.D., Department of Microbiology/Immunology #A-68, Albany Medical College, 47 New Scotland Avenue, Albany, NY 12208.

The Albany Medical College is an Equal Opportunity/Affirmative Action Employer.

**GENE MAPPING**

Department of Human Genetics, University of Michigan, is seeking a tenure-track FACULTY MEMBER in gene mapping and the molecular biology of human disease. Send résumé, statement of research interests, and three letters of reference to: Dr. W. Alberts, M.D., Department of Human Genetics, University of Michigan Medical School, Ann Arbor, MI 48109-0618. Affirmative Action/Equal Opportunity Employer.

**NSERC—WOMEN'S FACULTY AWARD**
The University of Victoria, Department of Biology, invites applications for a Natural Sciences and Engineering Research Council of Canada (NSERC) Women's Faculty Award. Applications from female Canadian citizens/lawful immigrants in neurobiology, population genetics, quantitative marine ecology, and plant cell physiology will be considered. A Ph.D. is required and postdoctoral experience is preferred. Send curriculum vitae, description of research interests, and names and addresses of three referees to: Dr. S. Jeffries, M.D., Department of Biology, University of Victoria, Victoria, British Columbia, Canada, V8W 3P6. Deadline for applications is 15 July 1990.

**UNIVERSITY OF HONG KONG**

**LECTURER IN BIOCHEMISTRY**

Applications are invited for a lectureship in the Department of Biochemistry. A higher degree is normally expected and some teaching experience is desirable. Applicants with medical or dental qualifications may have an advantage. The department seeks to appoint scientists with broad interests and may particularly favour those who in addition have special expertise in the fields of lipid and membrane biochemistry, neuroscience, molecular genetics, or human genetics. More than one post may be available.

Annual salary (superannuable, if under 35 years of age) is in the range HK$329,000 to HK$390,000 (11 points) (approximate US$1 = HK$73.80 as at 14 May 1990). Starting salary will depend on qualifications and experience. A successful candidate who has just completed the preregistration year will be appointed as lecturer at the minimum point of the scale. At current rates, salaries will not exceed 15% of gross income. Full details of the University's medical and other benefits are provided; housing or tenancy allowances are also provided in most cases at a charge of 7.5% of salary. Further information may be obtained from: Appointments (37922), Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0PX. Equal Opportunities Unit, Registry, University of Hong Kong, Hong Kong. Fax: 852-858258. E-mail: APPTUNIT@HKUV indiscriminating.

Closes 20 July 1990.
VIRAL DIAGNOSTICS
Nucleic Acid Probes

Chiron Corporation, the leader in human hepatitis virus research, is expanding its efforts in the development of diagnostic nucleic acid probe products for the detection of hepatitis viruses and other medically important organisms. These new, sensitive and quantitative diagnostic tests will be based upon Chiron's unique probe technology.

We are seeking highly motivated and exceptional individuals at all levels to join our team. MOLECULAR BIOLOGISTS, BIOCHEMISTS, Virologists and MICROBIOLOGISTS with experience (preferably industrial) in the characterization and application of specific nucleic acid probes and/or with a working knowledge of the methods to identify human pathogens are encouraged to apply.

Chiron Corporation, located in the San Francisco Bay Area, offers a stimulating and challenging research environment, a competitive compensation package and opportunities for professional advancement. Candidates please send C.V. and 3 references to Chiron Corporation, Human Resources Dept. - KAC69-82, 4650 Horton St., Emeryville, CA 94608.

PROGRAM DIRECTORS

Tampa Bay Research Institute (formerly known as Showa University Research Institute) is a non-profit biomedical research institute established in the State of Florida since 1981.

The Institute is affiliated with two Japanese Universities, Teikyo University, and Showa University Medical School, and with Salem-Teikyo University of West Virginia. The Institute is in the process of establishing a Graduate Program in Biotechnology with Salem-Teikyo University.

The Institute is based in a modern facility with excellent individual laboratory and office space, and centralized biotechnology services. Its central location within the rapidly growing Tampa Bay area is most attractive. Investigators will enjoy complete freedom to pursue research goals. While generous program support is provided, scientists are expected to secure extramural funding. Senior Investigators at the Member and Senior Member level, as well as, Assistant Members are encouraged to apply for any of the following disciplines: Molecular endocrinology, Molecular Pharmacology, Molecular Immunology, Neurobiology, Oncogen studies, Molecular Virology, Regulation of gene expression, and Receptor-ligand interaction.

Interested individuals should send their curriculum vitae, a list of publications and the number of four references to:
Chairman of Search Committee
Tampa Bay Research Institute
10900 Roosevelt Boulevard
St. Petersburg, Florida, 33716.

Tenure-Track Faculty Position in Molecular Oncology

Applications are invited for the position of Assistant Professor (tenure-track in the Faculty of Medicine, University of Manitoba). The successful candidate is expected to establish an outstanding independent research program in molecular structure and/or regulation as part of an Oncology group studying malignancy. The position requires only minimal departmental teaching responsibilities. Requirements include a Ph.D. in Biochemistry or a related field, or an M.D., with at least two years of Postdoctoral experience. Candidates with a strong research background in the structure and function of oncogenes or related areas are preferred. Applicants must have obtained a significant publication record in peer reviewed journals.

Applicants should send a curriculum vitae, an outline of research plans, and the names of three references to: Dr. A.H. Greenberg, Manitoba Institute of Cell Biology, 100 Oliva Street, Winnipeg, MB, Canada R3E 0V9.

Deadline for receipt of applications is one month after the appearance of this ad.

Both men and women are encouraged to apply. This position is available beginning September 1, 1991.

Colorado State University invites nominations and applications for the position of Dean of the College of Forestry and Natural Resources. The College is the largest college of forestry and natural resources in the nation with strong programs in education, research, service, extension and international activities. It consists of five departments: Earth Resources, Fishery and Wildlife Biology, Forest and Wood Sciences, Range Science, Recreation Resources and Landscape Architecture and an interdisciplinary research laboratory, the Natural Resource Ecology Laboratory.

As the chief academic officer of the college, the dean is responsible for the strategic planning, administration and coordination of education, research, service and extension programs. The dean reports to the Provost/Academic Vice President. Candidates must have demonstrated administrative and leadership skills, scholarly achievement and a thorough understanding of current natural resources issues. A doctoral degree is required. The successful candidate will have the vision and ability to lead the college in response to the challenges and opportunities of the 21st century.

Interested parties should request a full job description and application materials. All application materials must be received by August 31, 1990. The deadline may be extended if a suitable candidate is not found. The position starts July 1, 1991. All inquiries and nominations should be sent to: Dr. John C. Raich, Chair, College of Forestry and Natural Resources Dean's Search Committee, C-138 Clark Building, Colorado State University, Fort Collins, CO 80523. FAX (303) 491-0528.

CSU is an AA/EEO employer. E.O. Office 314 Student Services Bldg.

Boehringer Ingelheim PHARMACEUTICALS, Inc. is engaged in the discovery, development, manufacture and marketing of novel therapeutic agents. We currently have an opening for an experienced Scientist in the Biochemistry Department at our R&D facility located in Danbury, CT (just one hour from New York City.)

BIOCHEMIST

This position requires a Bachelor's or Master's Degree in Biochemistry or related discipline with experience in Enzymology. Experience with the development of enzyme assays, enzyme kinetics and protein purification required. HPLC experience is desirable.

The incumbent will pursue research on viral enzymes and will be specifically responsible for the evaluation of enzyme inhibitors as well as the investigation of mechanistic questions.

Our compensation/benefits package is highly competitive and includes relocation assistance, a company matched investment savings plan, and a modern, attractive work environment.

Please send your resume and salary requirements to: Dept. MH-036-15, BOEHRINGER INGELHEIM PHARMACEUTICALS, Inc., 90 East Ridge, PO Box 368, Ridgefield, CT 06877. We are an equal opportunity employer m/f/h/v.

Colorado State University DEAN COLLEGE OF FORESTRY AND NATURAL RESOURCES

BOEHRINGER INGELHEIM PHARMACEUTICALS, Inc.

Manitoba Institute of Cell Biology

 collagen

METASPRING

Colorado State University

DEAN COLLEGE OF FORESTRY AND NATURAL RESOURCES

Colorado State University invites nominations and applications for the position of Dean of the College of Forestry and Natural Resources. The College is the largest college of forestry and natural resources in the nation with strong programs in education, research, service, extension and international activities. It consists of five departments: Earth Resources, Fishery and Wildlife Biology, Forest and Wood Sciences, Range Science, Recreation Resources and Landscape Architecture and an interdisciplinary research laboratory, the Natural Resource Ecology Laboratory.

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Boehringer Ingelheim
SCIENTIFIC POSITIONS IN BIOTECHNOLOGY

Enzo Diagnostics, Inc., a dynamic health care company located in New York City, is dedicated to the development of DNA probe based and antibody based diagnostic tests. Enzo offers challenging positions with competitive salaries and benefits.

Protein Chemist/Molecular Biologist

We are seeking an individual with wide experience in enzymology, immunochemistry and molecular biology to lead a group responsible for development of new non-radioactive DNA probe products.

Immunology - This is a senior position requiring significant past accomplishments in the field. The appointee will lead in the identification and development of new immunodiagnostics and immunotherapeutic products and will supervise preparation and characterization of monoclonal antibodies.

Organic Chemistry - A synthetic organic chemist with postdoctoral experience is required. Interest and experience in stereospecific syntheses, synthesis of homocyclic rings or nucleic acids are desirable.

All positions require a Ph.D. or equivalent. For immediate consideration, please forward your resume to:

ENZO DIAGNOSTICS, INC.
325 Hudson Street, New York, NY 10013
Attn: Dept. S.F.

MICROBIOLOGIST

Senior Scientist/Project Leader

DIFCO Laboratories, a world leader in products for the microbiology laboratory, has a position open for a creative, result oriented scientist with fundamental training in bacteriology relating to microbial physiology and clinical microbiology. Candidate should have a Ph.D. with solid training in microbiology, proven leadership and innovative skills. The successful applicant will lead projects relating to the development of new diagnostic products in the area of clinical microbiology.

DIFCO R&D Center is located in Ann Arbor, Michigan, home of the highly rated University of Michigan. Reply to:

D. S. Kerschbaum
DIFCO LABORATORIES
Research and Development Center
1180 Ellsworth Road
Ann Arbor, MI 48108 USA
EOE M/F

PHARMACOLOGIST - Ph.D.

Merck, the leader in biomedical research, is offering an excellent career opportunity for a Cardiovascular Scientist to join an active team of investigators involved in the development of anti-coagulant, antithrombotic and thrombolytic therapies. This position requires a Ph.D. in pharmacology, physiology, or the equivalent, a thorough knowledge of blood coagulation and thrombosis, and experience with in vivo cardiovascular preparations. Experience with in vivo models of thrombosis is highly preferred. Active collaboration with other investigators in the group will be required, and the publication and presentation of experimental results is encouraged.

Excellent salary and benefits accompany this position at our modern research laboratories located 25 miles northwest of Philadelphia. Please send resume with salary requirements to:

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Merck & Co., Inc.
ENDOWED CHAIR
CHAIRMAN, NEW GENETICS DEPARTMENT

St. Jude Children’s Research Hospital, a private research institute, is creating a new Department of Genetics. The chairperson will be expected to direct an internationally recognized research program in contemporary genetics and will shape the future of genetics research within the institution through new faculty recruitment and by contributions to its overall scientific leadership. The Department of Genetics will be located in a new 240,000 square foot research building to be completed in early 1991, which will also accommodate ongoing basic science programs in Virology and Molecular Biology, Biochemistry, Immunology, Pharmacology, and Tumor Cell Biology, leaving ample space for further future expansion. The Chairman’s salary will be provided through committed endowment funds, together with additional resources commensurate with the needs of a dynamic and ambitious individual. Opportunities exist to interact with strong clinical programs in pediatric Hematology/Oncology and Infectious Disease. Applicants should submit a curriculum vitae and the names and addresses of four references to:

James N. Ihle, Ph.D.
Chairman, Department of Biochemistry
St. Jude Children’s Research Hospital
332 North Lauderdale
Memphis, Tennessee 38105

St. Jude Children’s Research Hospital is an Equal Opportunity Employer

FACULTY OF SCIENCE

SMURFIT PROFESSORSHIP OF MEDICAL GENETICS

The Smurfit Chair of Medical Genetics has been established by an endowment from the Smurfit Group to mark the 400th anniversary of the foundation of Trinity College, Dublin.

The person appointed will be either a scientist of standing in the field or a younger worker who can demonstrate the ability to establish within the Department of Genetics a strong research programme on the scientific aspects of Medical Genetics. The Smurfit Professor will also provide scientific support for the development of medical genetics services in Ireland although major clinical responsibilities are not envisaged and a medical degree is not a requirement.

Further particulars including details of salary and other benefits may be obtained from, and discussed with,

The Secretary to the College
West Theatre
Trinity College
Dublin 2
TEL. 778421/FAX 722853

to whom formal applications should be sent, preferably before Friday, 20th July 1990.
POSITIONS OPEN

FACULTY POSITION

University of Hawaii at Manoa: Joint appointment in the John A. Burns School of Medicine Department of Anatomy and Reproductive Biology and the Pacific Biomedical Research Center available July 1990. The tenurable position, subject to position clearance, will be at the PROFESSIONAL/RESEARCHER level and the person selected should have demonstrated an ability to maintain a well-funded research program in ethopharmacology. Teaching responsibilities may include assisting in developing a graduate research program in the neurosciences and tutoring in a problem-based medical education curriculum. Qualified candidates should have a Ph.D. degree in psychology and a record of research in ethopharmacology recognized nationally and internationally. Applicants should provide curriculum vitae and the names and addresses of three references to: Dr. F. C. Greenwood, Pacific Biomedical Research Center, 1993 East West Road, Honolulu, HI 96822.

Closing date: 11 July 1990.

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

THE UNIVERSITY OF MICHIGAN DIVISION OF CANCER BIOLOGY DEPARTMENT OF RADIATION ONCOLOGY Position: ASSOCIATE PROFESSOR OF CANCER CYTOGENETICS

Applications are invited for a faculty position in the field of cancer cytogenetics within the Division of Cancer Biology at the University of Michigan. Candidates for this position should have at least 2 years of pertinent postdoctoral experience. The successful candidate will be expected to develop a nationally recognized independent research program. A wide variety of interactions with other faculty are possible in many areas of genetics, biochemistry, molecular and cellular biology, and clinical cancer research. We provide facilities, a stimulating research environment, and competitive salary and benefits. Applicants should provide curriculum vitae, two copies of recent representative publications, and a detailed description of research goals. The applicant should also arrange for three letters of recommendation to be sent directly to us.

Submit applications to: Jeffrey M. Trent, Ph.D. Director, Division of Cancer Biology, Department of Radiation Oncology, University of Michigan, MSR-BII C6508B, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0668. Telephone: 313-936-7380.

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

INSTRUCTOR IN PHARMACOLOGY. Position available at the University of Missouri—Columbia. Duties to include coordinating and teaching the nursing pharmacology course and teaching in the medical pharmacology course offered to medical students. The successful candidate should have a Ph.D. or M.D. in a related basic science area, and will be encouraged to apply for grant support to develop independent research activity. Send curriculum vitae and three letters of recommendation to: Dr. Hyun Dju Kim, Professor and Chairman, Department of Pharmacology, University of Missouri—Columbia, One Hospital Drive, Columbia, MO 65212. Applications will be received until 1 August 1990. The University of Missouri—Columbia is an Equal Opportunity/Affirmative Action Employer.

HUMAN ANATOMIST

The Department of Biology, University of Alabama at Birmingham, invites applications for a full-time instruc-
tor of human anatomy (not a lecture track). Candidates should have a minimum of a master's degree and experience in human anatomy. The successful applicant will be expected to possess good oral communication skills and a commitment to excellence in teaching students in allied health programs. Applications will be reviewed beginning 1 August and will be accepted until the position is filled. Desired starting date is 1 January 1991 (negotiable). Applicants should submit curriculum vitae, names of three references, and a brief statement of teaching capabilities and information to: Mr. Robert W. Macion, Department of Biology, University of Alabama at Birmingham, UAB Station, Birmingham, AL 35294.

The University of Alabama at Birmingham is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

IN Virology immediately available to study the molecular biology of RNA-RNA viruses and plant mRNAs in NIH-funded project. Experience with molecular techniques desirable. Two/three years available. Send curriculum vitae and three references to: Dr. J. J. Buijarski, Northern Illinois University, Department of Biology/EMBC, DeKalb, IL 60115. Telephone: 815-753-0601.

POSTDOCTORAL POSITION

Available immediately to work on a 3-year project to identify novel proteinases involved in emphysema and cancer. Experience in protein chemistry or cell biology desirable. Send resume with references to: Dr. Robert M. Wason, Department of Biochemistry and Nutrition, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061. An Equal Opportunity/Affirmative Action Employer.
POSTDOCTORAL POSITIONS available immediately to study the immunobiology of HIV infection and human neoplasia utilizing human monoclonal antibodies. Candidates should have expertise in the immunochemistry, immunodetection, and immunobiology of monoclonal antibodies. Send curriculum vitae, a brief letter of interest, and three references to: Dr. Marshall Posner, Director, Human Monoclonal Laboratory, Roger Williams General Hospital, Brown University Medical School, 825 Chalkstone Avenue, Providence, RI 02908. Brown University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL SCIENTIST: The Bone Marrow Program of the Department of Medicine at the University of Kentucky has a 1-year position for a postdoctoral scientist. The successful candidate must have a strong background in molecular biology including Western blotting. Emphasis will initially be on the definition and molecular characterization of monoclonal antibody defined antigens. Qualified applicants should submit their curriculum vitae to: John S. Thompson, M.D., Chairman, Department of Medicine, University of Kentucky, 800 Rose Street, Lexington, KY 40536-0084.

A POSTDOCTORAL POSITION IN EVOLUTIONARY ECOLOGY will be available at the University of Minnesota, beginning September 1990 for research on the population structure of scale insects using allozyme electrophoresis, RFLP and sequencing techniques, and field experiments. Send curriculum vitae, statement of research experience, and referees' addresses to: Dr. D. N. Altad, Department of Ecology, Evolution and Behavior, University of Minnesota, 318 Church St. S.E., Minneapolis, MN 55455 by 1 August 1990. Equal Opportunity Educator and Employer.

POSTDOCTORAL POSITION. Available 1 July 1990 to study the expression of chorionic somatomammotropin and renin genes in human placental tissues. Experience in cell culture, transfection, general recombinant DNA, and protein-DNA interactions is advantageous, however highly motivated individuals with backgrounds in related areas are encouraged to apply. U.S. citizenship or permanent residency status required. Send letter of application to: Dr. Daniel F. Catanzaro, Department of Physiology and Biophysics, Cornell University Medical College, 1300 Avenue, New York, NY 10021. Telephone: 212-746-6497, FAX: 212-746-8451.

POSTDOCTORAL POSITIONS. Available immediately to work on projects relevant to understanding of the structure of human chromosome 21. Work will include construction of a complete physical map of chromosome 21 and isolation and characterization of genes located on this chromosome, including those genes possibly relevant to Down syndrome, Alzheimer's disease, and other human diseases associated with abnormalities of chromosome 21. Techniques include somatic cell genetics, molecular biology, biochemical analysis of metabolic pathways, transgenic mouse studies, and molecular cytogenetic procedures such as fluorescence in situ hybridization. Send curriculum vitae, brief statement of interests, and names of three references to: David Patterson, Ph.D., President, Eleanor Roosevelt Institute for Cancer Research, 1899 Gaylord Street, Denver, CO 80206. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION. Applications are invited for POSTDOCTORAL RESEARCH positions at the University of Pennsylvania beginning immediately to study molecular structure and function of the T and B cell repertoire during autoimmune differentiation; molecular structure of nephritogenic antigens, antigen-specific lymphokines, and cross-reactive idiotypes; gene regulation of MHC determinants in somatic cells and gene regulation of extracellular matrix modulated by autoimmune responses. Experience in eukaryotic molecular biology and/or biochemistry is desirable. Applicants must be eligible for funding from the NIH (U.S. citizens and permanent residents). Send letter of application, curriculum vitae, and two letters of reference to: Dr. Eric G. Neilson, Chief, Renal-Electrolyte Section, 700 Clinical Research Building, University of Pennsylvania, 422 Curie Boulevard, Philadelphia, PA 19104-6144. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

Experimental Toxicology
Postdoctoral Scientist

CIBA-GEIGY Pharmaceuticals Division, headquartered on 100 acres in Summit, New Jersey, offers stimulating opportunities in a mechanistic-based research program in Experimental Toxicology.

We are seeking a Postdoctoral Scientist to join our investigative research team in studying mechanisms of drug-induced oxidative cellular injury using in vitro test systems. Candidates must have a Ph.D. in Toxicology or a related field. Experience with techniques in primary cell culture (including hematopoietic systems), biochemistry/molecular biology, and immunology/toxicology is desirable. Participation in scientific forums, both internal and external, and presentation/publication of research findings are highly encouraged.

Experimental Toxicology is a multidisciplinary group focused on: 1) target-organ toxicity screening, 2) investigative/mechanistic studies, 3) animal alternatives, and 4) new technologies for toxicology research. The successful candidate may participate in a number of related projects.

We offer competitive salaries and comprehensive benefits in an environment conducive to personal and professional growth. Please send your resume with salary requirements to: Staffing Center, CIBA-GEIGY Corporation, Pharmaceuticals Division, Dept JK, 556 Morris Avenue, Summit, New Jersey 07901. We Are An Equal Opportunity Employer M/F/H/N.

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These positions require a Ph.D. in Pharmacology, Cardiovascular Pharmacology, Biochemistry, Radiation Biology or Nuclear Medicine with a minimum of 2 years' relevant postdoctoral experience.

The successful candidates will support increased drug discovery efforts and the development of new therapeutic/imaging agents for the treatment of cardiovascular disorders, including myocardial infarction, coronary thrombosis and injuries related to arteriosclerosis.

We offer a modern facility, competitive salaries and comprehensive benefits including an on-site fitness center. Send resume with salary history and requirements to: J. Richardson, R.W. Johnson Pharmaceutical Research Institute, Welsh & McKean Roads, Spring House, PA 19477.

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Toxicology Fellowships Available

The University of Mississippi Medical Center has five fellowships available for graduate training in toxicology. The program prepares students for work in academic, industrial research or government settings. The fellowship includes an $8,500 stipend, tuition and fees and travel to at least one national scientific meeting per year for presentation of the fellow's research. Stipends are funded by the National Institute of Environmental Health Sciences. Applicants should have a baccalaureate degree with a strong background in biology, chemistry or a related discipline. U.S. citizenship or a permanent visa is required.

The Department of Pharmacology and Toxicology is internationally known for research in the toxic effects of chemicals and drugs on the respiratory, hepatic, cardiovascular and central nervous systems and in the fields of biochemical and analytic toxicology. The department has 12 faculty, 19 graduate students and 15 postdoctoral fellows.

The University of Mississippi Medical Center campus is located in Jackson, capital and the major metropolitan center of the state. For further information contact: Dr. Harthara M. Mehdendale, Professor of Pharmacology and Toxicology, Department of Pharmacology and Toxicology, the University of Mississippi Medical Center, 2500 North State Street, Jackson, Mississippi 39216-4505.
The University of Mississippi Medical Center is an equal opportunity employer, M/F/H/V.

California Institute for Medical Research
Research Extending from Discovery of Cause through Care of Human Diseases

CIMR is embarking on a 10-year plan of expansion in basic and clinical research on selected human diseases. This small independent non-profit institute in San Jose plans to add established research programs with a focus on understanding and controlling human diseases through investigative research in the fields of neuroscience, carcinogenesis, aging, and infectious diseases.

Endowed Chairs

in Neuroscience, Carcinogenesis, Aging, and Infectious Disease

CIMR plans to establish its first endowed chair in one of the four fields listed above at the earliest possible date and at the latest by 1992. The investigator chosen for this first appointment should be an established investigator with a successful history of securing continued grant support. The recipient of this chair should be able to provide scientific leadership to a group of principal investigators and postdoctoral fellows in a core department and should demonstrate an interest to develop scientific interaction with our current CIMR programs. CIMR currently has NIH-funded programs in Parkinson's disease, human genetics of carcinogenesis, age-related neurodegenerative diseases, neuropathology, and mycology.

Research Scientists

CIMR wishes to attract new investigators in the four areas above. Applicants will be favored who have already secured funding or show great promise for funding through uniqueness of their scientific approach.

CIMR, San Jose, and the San Francisco Bay Area offer great potential for scientific achievement and collaboration with many nearby California universities and a well developed biotechnology industry. The Bay Area is also noted for its excellent weather and physical beauty. San Jose is a city of great charm which is undergoing physical and cultural revival with its recently renovated downtown area.

We actively promote affirmative action and equal opportunity employment. For consideration please send your resume, indicating position of interest and including a description of research goals, and a list of at least three references to:

John Leavitt, Ph.D. Scientific Director California Institute for Medical Research 2150 Clare Drive San Juan, California 95128 (408) 998-4554

RESEARCH ASSISTANT IV (Chemical Engineering) for University in NE Ohio to conduct research on new methods of separation especially in the areas of mass transfer & reaction in rotating packed beds & fractionation of fine particle slurries by cyclic processes using bidirectional flows & partial sedimentation & resuspension. Job duties include designing & constructing bench scale & pilot plant equipment; interfacing equipment to personal computers for controlling operation & data acquisition; analyzing samples using Spectrophotometry, Sediograph instruments, Gas Chromatography–Mass Spectroscopy (GC-MS), Flame Photometric Detectors (FPD), & Thermal Gravimetric Analysis (TGA); mathematical modeling & APL/BASIC programming for processing experimental data; presenting technical papers at professional meetings; writing research proposals, papers & reports; and advising undergraduates & Graduate Chemical Engineering research students.

Requires an M.S. in Chemical Engineering & 4 years chemical engineering R&D experience; Ph.D. in Chemical Engineering required in lieu of M.S. & 4 years experience. Must have experience with data acquisition software development for computer control & monitored experiments as evidenced by submission of a paper or report authored by the candidate describing the software he (she) developed (not specialization of general purpose packages such as LabTech Notebook); pilot plant scale centrifugal equipment construction & operation for continuous flow processing as evidenced by the candidate describing the process, its construction & operation, & the candidate's contributions (not use of laboratory or process centrifuges made by others); spectrophotometric instrument design & construction as evidenced by submission of a paper or report authored by the candidate describing the instrument, its construction & operation, & the candidate's contributions (not use of standard or modified commercially available instruments); knowledge of & experience with the programming language APL, for processing & reducing experimental data as evidenced by submission of a paper or report authored by the candidate describing the software (not specialization of general purpose packages such as Lotus 1-2-3), 37½ hr/wk, 8:30 am-5:00 pm, Mon-Fri, $25,165 yr. Must have proof of legal authority to work permanently in U.S. Qualified applicants should submit C.V. with names & addresses of 3 references as well as the above required papers & reports in duplicate (no calls) to G. Maukans, J.O.B. # 1084554, Ohio Bureau of Employment Services, P.O. Box 1616, Columbus, Ohio 43216. The position is an equal opportunity, affirmative action, employer.

RESEARCH SCIENTISTS

PANLABS is expanding its U.S. laboratory facilities. We have opportunities for scientists with a demonstrated record of scientific innovation and independence. Positions available:

Ph.D. — Biochemistry, Molecular Biology, Pharmacology, or other related area

3–5 years experience

Responsibilities include participation in projects involving cloning and expressing mammalian proteins in cultured cells, and the development of radioligand binding and enzyme assays directed at drug discovery and characterization.

Ph.D. — Molecular Genetics, Natural Products Chemistry, Biochemistry Postdoctoral experience or experience with industrial microbes preferred

Responsibilities include training and supervision of technical staff in cloning and characterizing gene clusters for the biosynthesis of secondary metabolites. Position requires skills and experience in molecular genetics, natural products chemistry and biochemistry. Candidate must have good communication skills, publications, and strong desire to work with a team.

BS/MS — 2–5 years experience

Responsibilities include development, validation and implementation of high-throughput assays for drug discovery and characterization, including radioligand binding, enzyme activity, and cellular functional response assays. Background in biochemistry and molecular biology desirable.

PANLABS is a growing U.S. based international company that has provided R&D services to pharmaceutical companies and the fermentation industry worldwide for 20 years. Located in the high tech corridor north of Seattle, PANLABS offers competitive salaries and benefits. Submit CV with names and phone numbers of 3 references to:

PANLABS, INC.
Attn: Human Resources Manager
11804 North Creek Parkway South
Bothell, Washington 98011
 An equal opportunity employer.
**BS/MS Scientists**

GenPharm International is a rapidly growing biotechnology company specializing in transgenic animal technology, with subsidiaries in the U.S. and Europe. We are seeking research associates and assistants for our Mountain View, California facility. You will join a dynamic team of scientists using newly developed technologies in mammalian molecular genetics to solve a technically and intellectually challenging problem in molecular immunology.

**Molecular Biology**
You must have experience in the isolation and characterization of cloned genes, including plasmid constructions, restriction mapping, and Southern analysis. Proficiency in DNA sequencing, RNA isolation and analysis and small animal surgery is preferred.

**Cell Biology**
You'll be responsible for the generation and culture of mouse embryonic stem cells, transfection of cells, and basic analytical techniques, including PCR and Southern analysis. Experience with cell culture is necessary, but ES cell experience is not a requirement.

Both positions require an MS/MA with academic research experience or a BS/BA with at least 1 year of post-graduate research work.

We offer a competitive salary and benefits package including a stock option program. Qualified candidates are invited to forward a c.v. to GenPharm International, Attn: LF, 2375 Garcia Avenue, Mountain View, CA 94043. We are an equal opportunity employer.

**GENPHARM INTERNATIONAL**

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1515 Broadway
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**Postdoctoral Researchers**

**Immunology/Cell Genetics**

Genentech, Inc., a leader in the field of biotechnology, has excellent opportunities for Postdoctoral Researchers in our Immunology and Cell Genetics departments.

In our Immunology department, we have an opportunity to study the interactions between growth factors and cytokines in the regulation of T-cell functions. The qualified candidate will have a strong background in cellular and molecular immunology. Dept. MP

A position is also available in Immunology to study down-regulation of inflammatory responses. The candidate should have a strong background in cellular immunology. Some experience in molecular biology and/or in vivo models of inflammatory disease is desirable. Dept. PJ.

Our Cell Genetics department has a position available for a Postdoctoral Researcher to study growth factors controlling liver regeneration, mechanism of signal transduction and effects on transcriptional regulation. Ph.D. required. Dept. PG.

Genentech, Inc. offers an excellent salary and benefits package coupled with the opportunity to make a significant contribution to our organization. For consideration, please send your resume, indicating appropriate department, to Yvonne Davino, Genentech, Inc., 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal employment opportunity. Women and minorities are encouraged to apply.

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**Genentech, Inc.**

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Faculty Positions In

MOLECULAR NEUROBIOLOGY

The Biotechnology Center, in collaboration with academic departments within the colleges of Biological Sciences, Medicine and Pharmacy, invites applications for three joint tenure track faculty positions. Successful candidates will occupy new laboratories on the Neurobiology floor of the Biotechnology Center and join existing faculty whose research efforts focus on gene expression in nervous tissue during development and aging. This group will shortly expand to 10 faculty.

Applicants for Assistant Professorships should demonstrate exceptional potential to develop strong research programs that apply tools of molecular biology to address significant problems in neurobiology. Senior candidates with ongoing programs of excellence will be considered for an Associate Professorship. Qualified molecular neurobiologists working with vertebrate or invertebrate systems will receive careful consideration. Candidates who utilize transgenic mice in the course of their research are especially encouraged to apply.

The Ohio State University is establishing an outstanding program in molecular neurobiology and neuroscience which is reflected by quality research facilities and highly competitive start-up funds and salary.

Screening of candidates will begin on August 15, 1990. Applicants should submit a curriculum vitae, statement of research plans, and names and addresses of three references to Dr. Anthony Young, Chairperson, Molecular Neurobiology Search Committee, Ohio State Biotechnology Center, Rightmire Hall, 1060 Carmack Rd., Columbus, OH 43210. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

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Director Center For Biotechnology Northwestern University

Northwestern University invites applications and nominations for a Director of the newly created Center for Biotechnology, which encompasses all life science programs of the University. The goals of the Center are to create an environment that stimulates biotechnology research, to enhance collaborative interactions between biotechnology companies and the University, and to facilitate the transfer of biotechnology advances and trained scientists to the biotechnology industry.

Reporting directly to the Vice President for Research, the Director will have primary responsibility for the general operation of the Center, including financial management, planning, and corporate relations, and will serve as Chair of the Center’s Executive Board.

Qualifications include a Ph.D. in the biomedical sciences, significant experience in both academic and industrial settings, including senior managerial responsibility at a major biotechnology or pharmaceutical firm.

Appointment of the Director will be on September 1, 1990, for an initial term of five years, and carries an attractive starting salary and a faculty-level appointment.

Applications and nominations should be sent by July 15, 1990, to:

Professor Daniel I. H. Linzer
Chair, Director Search Committee
Department of Biochemistry
Molecular Biology and Cell Biology
Northwestern University
2153 Sheridan Road
Evanston, IL 60208

EEQAA Employer. Employment eligibility verification required upon hire.

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TOXICOLOGIST CELL BIOLOGY/PRODUCT SAFETY

The Gillette Medical Evaluation Laboratories, a division of The Gillette Company, has an opening for a toxicologist in product safety assessment. Responsibilities of this entry-level position include the review and analysis of current in vitro testing methodology and results; the safety/risk assessment of ingredients and formulas; and the implementation of applicable government regulations in order to ensure the distribution of safe consumer products. Work involves cooperation in a team effort to evaluate in vitro testing in-house, initiation of clinical/toxicologic product safety studies and evaluation of test data, and the review of drug claims and consumer medical comments.

Qualified candidates will possess a Ph.D. in Cell Biology (Tissue Culture) or Toxicology as well as experience in in vitro testing and familiarity with current literature on alternatives to animal testing. Familiarity with designing clinical/toxicologic tests for product safety evaluation and knowledge of industrial hygiene is desirable.

Gillette Medical Evaluation Laboratories is located in a new facility, outside of Washington, D.C., in an area rich in government, private, and academic scientific laboratories. We offer an excellent compensation, benefits, and relocation package. For consideration, please send a confidential resume to:

Gillette Medical Evaluation Laboratories
Personnel Office
401 Professional Drive
Gaithersburg, MD 20879

Equal Opportunity Employer
SENIOR RESEARCH ASSOCIATE/SCIENTIST

A Ph.D. in Physiology, Pharmacology, and Electrophysiology with post-doctoral experience is sought to participate in an active research team to study the physiology and pathophysiology of the cardiovascular and respiratory systems. If possible, experience in molecular biology, immunology, and small animal surgery is preferred.

The candidate should be productive and have extramural funding record or have the ability or potential to procure extramural funds. The position is at the Senior Research Associate or Research Scientist level.

Please send curriculum vitae to:
Mr. Leon Halber
Chairman of the Board
Deborah Research Institute
Trenton Road
Brownsville, NJ 08015

MOLECULAR BIOLOGIST

Molecular Biologist needed with experience in cloning, sequencing and expression of rotavirus genes with knowledge of relevance of gene product(s) required for induction of protective antibodies for rotavirus vaccine development for humans. Experience in determining interrelationships of various rotaviruses by study of antibodies to expressed proteins by various immunologic assays.

Salary is $44,477 per annum.

Please contact the NIAD Personnel Office for further information: (301) 496-4634.

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POSITIONS OPEN

POSTDOCTORAL POSITION. Available beginning 1 August 1990 to study specific gene expression in acquired salt tolerance as the cellular and whole plant level. Ph.D. in molecular biology, biochemistry, or related field. Experience in recombinant DNA techniques and molecular biology is highly desirable. Send curriculum vitae and names of three references by 1 August 1990 to: Dr. Ilga Winicov, Department of Biochemistry, University of Nevada, Reno, NV 89557. (Affirmative Action/EQUAL Opportunity Employer)

POSTDOCTORAL POSITION Immediately available for 2 years to study the physiology of single olfactory receptor and bulb neurons of fish to individual amino acid stimuli and to their mixtures. Ph.D. and electrophysiological experience in neuromuscular systems may be highly desirable. Send curriculum vitae and addresses of three references to: Dr. Daniel K. Caprio, Department of Zoology and Physiology, Louisiana State University (LSU), Baton Rouge, LA 70803. LSU is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. Available immediately for 2 years to study the function of specific genes and their regulation by tissue specific control elements. Ph.D. and three years experience in cell biology, immunology, and molecular genetics. Send curriculum vitae and names of three references to: Dr. Ruben Adler, Wilmer Institute, Johns Hopkins University School of Medicine, Baltimore, MD 21205.

POSTDOCTORAL POSITION MOLECULAR GENETICS

Available immediately to investigate molecular and somatic cell approaches to mechanisms influencing human genome stability. Ongoing efforts utilize heritable disorders with mutant cellular phenotypes of chromosomal mapping and cloning of genes and/or DNA sequence repair in repair, recombination structure, and chromosome evolution and stability. Applicants should have a Ph.D. and experience with molecular or somatic cell techniques. Send curriculum vitae and names of three references to: Dr. Roger A. Schultz, Director of Molecular Genetics Laboratory, Division of Human Genetics, University of Maryland, 655 West Baltimore Street, Baltimore, MD 21201. Telephone: 301-328-8497.

POSTDOCTORAL POSITION available, University of Florida. Support is available for an individual with a Ph.D., or equivalent, in molecular biology, immunology, or microbiology to pursue subunit vaccine development for the rickettsial parasite, Anaplasma marginale. Parasite surface proteins involved in invasion of host erythrocytes will be identified, cloned and characterized, and recombinant products based on these surface proteins will be isolated and tested for their immunoprotective efficacy in cattle. Interested individuals should send curriculum vitae, statement of research goals, and three letters of reference to: Dr. David R. Allred, Department of Infectious Diseases, Building 471, Mowry Road, IFAS 633, University of Florida, Gainesville, FL 32611. The University of Florida is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN BEHAVIORAL NEUROPHARMACOLOGY

The Department of Pharmacology and Therapeutics, Louisiana State University Medical Center (LSUMC-Shreveport), invites applications for a postdoctoral position in neuropharmacology. Specific projects involve the study of neurotransmitter systems and their interaction with the discriminative stimulus and behavioral effects of cocaine and the study of the role of central beta adrenergic receptor subtypes in behavioral regulation and in the mediation of the behavioral effects of antidepressant drugs. Candidates should have interest and experience in relevant areas of behavioral neuropharmacology, such as receptor behavioral pharmacology, drug discrimination, receptor pharmacology, and HPLC analysis of neurotransmitters. Salary depends on previous experience. Please send curriculum vitae and three reference letters to: James M. O'Donnell, Ph.D., Department of Pharmacology and Therapeutics, LSUMC-Shreveport, P.O. Box 53932, Shreveport, LA 71130. LSUMC-Shreveport is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION. To analyze effects of climatic and anthropogenic processes on landscape transformation in mid Atlantic United States as recorded in the stratigraphic record. The applicant should be trained in paleoecology and statistical techniques including GIS and immediately. Send curriculum vitae and names of three references to: Dr. Grace S. Brush, Department of Geography and Environmental Engineering, The Johns Hopkins University, Baltimore, MD 21218. Telephone: 301-338-7107. An Equal Opportunity Employer.

Gastroenterology. POSTDOCTORAL POSITION. Available immediately to study the regulation of expression of the glutathione S-transferases in the liver. Research may be in molecular biology, genetics, or biochemistry desired. Research involves work with cultured hepatocytes and in vivo studies of hepatic regenerates. Send curriculum vitae and names of three references to: Thomas D. Boyer, M.D., Department of Medicine, P.O. Box 252306, Atlanta, GA 30322. Emory University is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS. Available July 1990 to study: (i) regulation of gap junctional communication through phosphorylation of junction protein by cellular kinases and pp60csrc, and (ii) the expression of regulator genes in cancer and tumor suppressor genes in thyroid cancers. Candidates should have a Ph.D. degree and experience in molecular biology, particularly mutagenesis, PCR, expression vectors. Send curriculum vitae and names of three references to: Dr. Alan F. Lau, Cancer Research Center, 1236 Lànhula Street, Honolulu, HI 96813.

POSTDOCTORAL FELLOWSHIP

A postdoctoral position is available immediately to study mechanisms of free radical generation during cardiac surgery. Experience in the biochemistry and physiology of myocardial ischemia and reperfusion as well as analytical techniques (GC-MS, HPLC) is necessary. A background in ESR is welcomed but not necessary. Please send your curriculum vitae and names of three references to: Dr. B. Kalyanaraman/J. E. Baker, National Biodefense Research Institute, Medical College of Wisconsin, 8701 West Watertown Plank Road, Milwaukee, WI 53226. Equal Opportunity/Affirmative Action Employer, M/F/H.

POSTDOCTORAL FELLOW in CARDIOVASCULAR DISEASE

Available postdoctoral fellow position available for Ph.D. and/or M.D. beginning 1 September 1990. The fellow will be a member of a scientifically centered in thrombosis, thrombolysis, and endothelial cell biology. Attractive compensation and surroundings. Research background is molecular biology is preferred. Specific topics have both clinical and industrial relevance. Please send curriculum vitae and references to: Dr. Michael L. Rudge, M.D., Ph.D., P.O. Box 61, Atlanta, GA 30322. Emory University is an Equal Opportunity Employer.

CARDIOVASCULAR DISEASE

RESEARCH ASSOCIATE/POSTDOCTORAL FELLOW

Research associate/postdoctoral fellow needed to work on a multicenter national Alzheimer's disease clinical neurorethology research program. The work will include the isolation and characterization of normal and abnormal proteins from human brain tissue, as well as immunohistochemical and in vivo studies. Experience with data collection and analysis is desirable. Send a copy of curriculum vitae and references to: Dr. S. Mira, Laboratory Services, Veterans Administration Medical Center, 1670 Clairmont Road, N.E., Decatur, GA 30033. Emory University is an Affirmative Action/EQUAL Opportunity Employer. Women and minorities are encouraged to apply.

RESEARCH ASSOCIATE/POSTDOCTORAL FELLOW

Available position 1990 for 3 years to study the regulation of gene expression in leukemic cells. Ph.D. or M.D. degree required and experience in molecular biology preferred. Please send letter of interest and curriculum vitae and names of three references with addresses and telephone numbers to: Dr. George Atweh, SUNY-Brooklyn/VA Medical Center (111D), 800 Fooy Place, Brooklyn, NY 11209.
POSTDOCTORAL RESEARCH ASSOCIATE

Open immediately to study the neural and hormonal control of energy balance, especially the control of naturally occurring changes in adipose tissue as affected by the photoperiod. Multidisciplinary approach to site-specific changes in adipocyte cell function. Experience with a variety of techniques desirable: isolated fat cell metabolism, adipose tissue cellularity, in vivo microdialysis, adenrenergic receptor assay, HPLC with EC detection is mandatory. Two to five years possible. Send curriculum vitae and names of three references to: Dr. Timothy J. Barmess, Departments of Psychology and Biology, Georgia State University, Atlanta, GA 30303. (505) 429-2885.

COLUMBIA UNIVERSITY

POSTDOCTORAL RESEARCH ASSOCIATE

A position is available to study the structure and function of HIV-1 genome. Emphasis on the mechanism of action and genetic determinants of low-cytotoxic HIV-1 isolate and its effects on cellular gene expression and cell functions. Candidates should have a Ph.D. or equivalent and a strong background in virology and molecular biology. Applicants should submit curriculum vitae with a statement of research interests, and names of three references to: Dr. J. D. Volksy, Molecular Virology Laboratory, College of Physicians and Surgeons, St. Luke/Roosevelt Hospital Center, 432 West 58th Street, New York, NY 10019.

POSTDOCTORAL RESEARCH ASSOCIATE/ RESEARCH FACULTY POSITION

Position available in ongoing project examining the pathogenesis of neurodegeneration in transgenic models. Candidates should have an M.D. or Ph.D. degree and two or more years of experience in the expression of hybrid genes in the CNS of transgenic mice. Experience is required in the molecular and histologic analysis of nervous tissue. Practical experience with murine LCMV infections is also necessary. Salary: $40,000. Applications should include curriculum vitae, list of publications, summary of research activities, and three letters of references. Applications should be addressed to: Dr. Michael B. Oldstone, Department of Neuropharmacology, Scripps Clinic and Research Foundation, 10666 North Torrey Pines Road, La Jolla, CA 92037. Attention: L. Quinssatt—IMM3.

RESEARCH ASSOCIATE

PHD. on catalytic antibodies, immunology, and recombinant DNA methods. Ph.D. in biochemistry, immunology, or related discipline. Excellent facilities, interactive environment, and competitive salary. Send curriculum vitae and telephone numbers of three references to: Sudhir Paul, Ph.D., Departments of Pharmacology and Biochemistry, University of Nebraska Medical Center, 600 South 42nd Street, Omaha, NE 68192-6950. The University of Nebraska is an Affirmative Action/Equal Opportunity Employer.

SENIOR RESEARCH ASSOCIATE

The University of Georgia Complex Carbohydrate Research Center requires a carbohydrate chemist/biochemist to undertake research in the isolation, purification, and complete structural characterization of complex carbohydrates from plant cell walls and microorganisms using chemical/enzymatic techniques in combination with HPLC, TLC, GLC-MS, and NMR spectroscopy; train graduate students/postdoctoral fellows to use HPLC and GLC-MS equipment; and assist in the writing of grants and scientific manuscripts. Requirements: M.S. or equivalent with minimum of 6 years research experience in the application of chromatographic procedures for the depolymerization of complex carbohydrates and in the use of HPLC, TLC, GLC-MS, and NMR spectroscopy for the general characterization of complex carbohydrates and their derivatives. Good publication record required. Salary: $35,000 per year; 40 hours per week. Review of applications will begin on 1 August 1990. Applicants should submit resume to: Professor Alan G. Davill, Complex Carbohydrate Research Center, The University of Georgia, 220 Riverbend Road, Athens, GA 30602. An Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE

To study the interaction of inter-leukins and of the hypothalamic-pituitary-adren al-axis on intermediary metabolism. Experience in small animal surgery, RIA, ELISA, and HPLC. Knowledge of tissue culture helpful. Joint appointment at Shriners Burns Institute, Children's General Hospital, and Harvard Medical School. Send resume to: Lynne L. Levitsky, M.D., 51 Blossom Street, Boston, MA 02114. Equal Opportunity Employer.

U.S. DEPARTMENT OF AGRICULTURE (USDA)

AGRICULTURAL RESEARCH SERVICE (ARS)

POSTDOCTORAL RESEARCH ASSOCIATE (MOLECULAR BIOLOGIST OR IMMUNOLOGIST) (IMMEDIATELY AVAILABLE)

Research Associate to work in the reliability of Helminth Disease Laboratory, Burlington, Vermont. Research objectives include the construction of DNA probes for cattle parasites and the analysis of the induction of cytokine for integrated studies of immune responses to: Dr. Ron Libby, USDA, ARS, HDL, Building 1040, BARC-East, Burlington, MD 20705, or telephone: 301-344-2509. Applications should be marked DB007. An Equal Opportunity Employer.

POSTDOCTORAL RESEARCH SCIENTIST

Columbia University. Qualified applicants will be recruited for undertaking studies on the mechanisms of action of the antihypertensive agents (SAE) in determining gonadal sex, promoting development of the male reproductive system, and stimulating the proliferation and differentiation of male gonad tissue. Applicants must have an M.D. or Ph.D. and two or more years of postdoctoral experience in cellular and molecular biology of growth factors. Salary: approximately $25,000. Send curriculum vitae and the names of three references to: Dr. Anthony K. Belvè, Department of Anatomy and Cell Biology, College of Physicians and Surgeons, Columbia University, 650 West 168th Street, New York, NY 10032.

POSTDOCTORAL RESEARCH IN AUTOIMMUNITY AND CANCER IMMUNOLOGY

Opportunity in a multidisciplinary immunology program an area of autoimmune and cancer immunology, with strong emphasis on cellular and molecular biology of growth factors. Opportunity for independent research with a competitive salary. Send statement of research interests and names, addresses, and telephone numbers of three references to: Vanda A. Leenon, M.D., Ph.D., Department of Immunology, Mayo Clinic, Rochester, MN 55905. An Equal Opportunity/Affirmative Action Employer.

RESEARCH INSTRUCTOR OF ANATOMY

Non-tenure-track position available for research in develop mental, neuroendocrinology, and teaching in medical gross and developmental anatomy. Candidates must have a Ph.D. in anatomy or neuroscience and at least 2 years of experience teaching gross anatomy (laboratory and lectures) to professional students. Research involves lineage analysis of neuronal development in amphibian, and skills must include intracellular delivery of dyes to embryonic cells, immunohistochemistry on developing brain, embryonic microsurgery, and electron microscopy. Position available September 1990; deadline for applications is 15 July 1990. Send curriculum vitae and the names and addresses of three references to: Dr. Sally Moody, Department of Anatomy, Box 439 Medical Center, University of Virginia, Charlottesville, VA 22908.

STAFF SCIENTIST

RED HUTCHINSON CANCER RESEARCH CENTER

Position available for a Ph.D. biochemist to help direct isotopic/hormonal human esophagus tumor injury laboratory. Minimum of 2 years of experience, preferably in membrane/cytoskeletal research experience desired. Please respond by September 1, 1990. Applications should be sent to: Professor Alan G. Davill, Complex Carbohydrate Research Center, 1124 Columbia Street (ad# HN-1751), Seattle, WA 98104. FAX: 206-224-4051. Smoke-free environment. Affirmative Action/Equal Opportunity Employer, M/F/Hispanic.

22 JUNE 1990

CHAIRPERSON

Department of Microbiology and Immunology

The Pennsylvania State University College of Medicine is seeking a chairperson in Microbiology and Immunology to succeed Dr. Fred Rapp who is retiring from the position effective June 30, 1990, after serving as Chairman of the Department for twenty-one years. The Department has a tradition of excellence in research and teaching. The faculty of the Department excel in their individual fields of research and their endeavors are currently well supported by extramural grants and contracts. The Department offers courses covering various aspects of microbiology, immunology, and molecular biology for medical and graduate students. The faculty participates in a departmental graduate program, as well as, three interdepartmental graduate programs and a college of medicine M.D./Ph.D. program. The Department offers unique opportunities for growth and development in a rapidly expanding academic medical center. The candidate should be nationally and internationally recognized with an outstanding reputation as an investigator in an area of research relevant to microbiology and immunology. The candidate should also have proven leadership skills and should be experienced in teaching and administration.

The deadline for applications is September 30, 1990. Applications or nominations should be addressed to: Leonard S. Jefferson, Ph.D. Chairman, Microbiology and Immunology Search Committee, The Pennsylvania State University College of Medicine, P.O. Box 850, Drawer SC Hershey, PA 17033

An Affirmative Action/Equal Opportunity Employer. Women and Minorities are Encouraged to Apply.
POSITIONS OPEN

PROFESSIONAL RESEARCH POSITION
UNIVERSITY OF CALIFORNIA, IRVINE

The Department of Psychobiology invites applications for the positions of RESEARCH PSYCHOBIOLOGIST. The ideal candidate will have a PhD in psychobiology or a related field with postdoctoral research and/or clinical training experience. Experience in research areas such as feeding, metabolism, circadian rhythms, and sleep would be considered a plus. Applicants will have a record of research productivity, as evidenced by publications in refereed journals. Applicants should have a broad knowledge of behavioral and physiological systems and methods and be able to design and conduct research involving behavioral, physiological, and/or pharmacological procedures. The position is available immediately. Salaries are dependent on qualifications and experience.

GROUP LEADER FOR BASIC RESEARCH CYPROPHARM CORPORATION

Cypropharm Corporation seeks a Ph.D. level scientist to direct a basic research group dedicated to advancing the company's proprietary technology for lypolization and reconstruction of human and animal red blood cells. The successful candidate will have demonstrated experience in research and development projects related to the pharmaceutical and biotechnology industries. This position requires a high level of creativity, technical skill, and ability to work independently. Candidates must have a strong background in biochemistry, molecular biology, or a related field, and be able to design and conduct research involving biochemical and molecular biological procedures. The position is available immediately. Salaries are dependent on qualifications and experience.

RESEARCH SCIENTIST with Ph.D. in Immunology and strong background in microbiology to head up program in Pediatric Otolaryngology Immunobiology Research at Children's Hospital of Buffalo. Experience required at postdoctoral level. Salary competitive. Send curriculum vitae and names of three references to: Dr. J. Brodsky, Department of Otolaryngology, Children's Hospital of Buffalo, 219 Bryant Street, Buffalo, NY 14222.

SCIENTIST. Meridian Diagnostics, Inc., has an opening in its research and development department for a scientist. This position will assist in design, development, and testing of research projects. Must be capable of supervising one research associate and working independently. Requires a Ph.D. in biochemistry, immunology, microbiology, or a related field. Up to 2 years of industrial research and development experience helpful. Familiarity with protein separation and purification or immunosensor technology beneficial. For consideration, please send resume to: Meridian Diagnostics, Inc., Human Resources, 3471 River Hills Drive, Cincinnati, OH 45237. An Equal Opportunity Employer.

SENIOR STAFF ENGINEER/SCIENTIST. Responsible for the development of products utilized in land surveys, navigation, civil engineering and geodetic positioning. Developing methods and conducting research obtained from GPS satellite systems. Must possess knowledge of satellite navigation systems, navigation engineering, geodetic positioning and post-processing analysis of recorded GPS satellite signal measurements; development and design of GPS Data-Point Satellite-Doppler surveying systems; Fortran and C computer software languages; IBM PC platforms; WM, PDS GPS post-processing software systems; implementation of PC-based data base management software; and other survey and positioning systems of geodetic and engineering survey data. Must have Ph.D. or equivalent in geodetic sciences, 3 years in position offered. Salary: $5512 per month. Forty hours per week. Job site and interviews: Torrance, California. Send and resume, no later than 7 July 1989, to MUJ #1859, P.O. Box 9560, Sacramento, CA 95823-0560.

POSITIONS OPEN

ASSISTANT MATERIALS SCIENTIST. Ph.D. in Materials Science or Physics. Graduate research should include work in materials with emphasis on preparation, microstructure, and critical current—field measurements. Individual will carry out research efforts related to high magnetic field superconducting materials. Activities will include experimental instrumentation, sensitive critical current measurements, microstructural analysis, materials preparation, and development of analytical techniques. Salary: $3750 per month; 40 hours per week, 8:30 a.m. to 5:00 p.m. Send resume to: Illinois Department of Employment Security, 715 South State Street—Employment Services Building, Chicago, Illinois 60605. Attention: Connie M. Evans, Reference #9687-E. An employer-paid ad.

RESEARCH CHEMIST

The Biochemistry Section, Division of Respiratory Disease Studies, National Institute of Occupational Health, National Institute of Environmental Health Sciences, National Institutes of Health, is seeking a scientist with training in biochemistry or biological sciences and experience in cell isolation techniques, identification of cellular mediators, respiratory toxicology, inhalation toxicology, and/or immunology. A Ph.D. is required with postdoctoral experience desirable. The incumbent will conduct research on the actions of oxidants, including peroxy radicals, on normal and disease states in modern, well-equipped, and funded laboratory. Compensation and the adjacent faculty appointment with West Virginia University will be adjusted to NIH, NIH, and inquired. Salary starting is $36,000. Interested candidates should send inquiries, curriculum vitae, and references to: DAVID A. PETERS, Ph.D., NIOSH, Malden, MS C-6, 6700 Cambridge Parkway, Cincinnati, OH 45226. Applications must be submitted within 30 days of this announcement. NIOSH is an Equal Opportunity Employer and maintains a smoke-free work environment.

SUPERVISORY PHARMACOLOGIST OR RESEARCH CHEMIST, GM-14

Supervisory Pharmacist or Research Chemist, GM-14, to serve as chief of the Pharmacodynamics Team, Division of Research, NIH, Chief, Division of Pharmacology, U.S. Army Medical Research Institute of Chemical Defense, Aberdeen Proving Ground, Maryland. Responsible for supervising and managing fundamental research on mechanisms of action of toxic agents, and the development of concepts of prophylaxis and therapy. Qualified applicants must have established expertise in pharmacokinetic modeling, neurotoxicology, pharmacology, enzyme kinetics, toxicokinetics, or molecular biology, as indicated through peer-reviewed publications. Demonstrated ability to effectively manage and coordinate scientific activities and the above areas is highly desirable. Salary range is $50,342 to $65,444 per annum. Position requires bachelor's degree (or higher) and appropriate professional experience in pharmacology or pharmacy. Ph.D. desired. U.S. citizenship is required and the applicant must be able to obtain a security clearance. resumes must be sent to Chief, Division of Pharmacology, Chief, Division of Pharmacology, U.S. Army Medical Research Institute of Chemical Defense, Aberdeen Proving Ground, MD 21005-5001. Equal Employment Opportunity.

WATER ANALYSIS CHEMIST. Forty hours per week, overtime not available. 9 a.m. to 5 p.m.; $2815 per month, overtime not available. Duties: Evaluates chemical contaminants in portable drinking water; develops testing methods and conducts analysis on chemical additives which directly or indirectly come in contact with water, including: organic and inorganic analysis, titration, gravimetric testing, physical determinations, phnotometric analysis, environmental gas emission, microbiological growth, plus computation and theoretical chemical composition analysis. Required Ph.D. in chemistry (analytical), 1 year of experience in job offered or 1 year of experience in related occupation as research associate (analytical chemistry). Other special requirements include an understanding of the hydride-atomic absorption as evidenced by published work in a research journal, (ii) 1 year of experience in related occupation as research associate (analytical chemistry). An employer-paid ad.

POSITIONS OPEN

G/R/REMOTE SENSING/MONITORING

The University of Georgia Marine Institute on Sapelo Island has an opening for a RESEARCH TECHNICIAN. Experience in Geographical Information System (GIS) and its atmospheric and hydrologic monitoring stations. The successful applicant will be charged with calibration, maintenance, computer interfacing, and quality control. Familiarity with GIS, IBM compatible microcomputers, and/or HydroLab and Campbell datalogging systems is desirable. This full-time position is currently funded for 2 years, with extensions expected. Send résumé and names of two references to: Dr. Alice G. Chalmers, University of Georgia Marine Institute, Sapelo Island, GA 31327. Telephone: 912-485-2201. The University of Georgia is an Equal Opportunity/Affirmative Action Employer.

MEETINGS

ADVANCES IN CHEMOTHERAPY OF AIDS-II
13–14 September 1990
Symposium on recent advances in basic research on development of novel drugs and pharmacologic approaches against AIDS. Details and application forms: Department of Pharmacology, University of Alabama at Birmingham, University Station Box 600, Birmingham, AL 35294, Telephone: 205-934-4578 or 205-934-8248. FAX: 205-934-8240.

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SCIENCE, VOL. 248
Nominations for the 1991 Helmut Horten Research Award

In autumn 1991, the Helmut Horten Foundation will, for the first time, award a scientist, or a group of scientists working on a common project, the Helmut Horten Research Award amounting to SFR 1,0 million (approximately US$ 700,000.). This amount includes a sum to be given to the laureate for his discretionary use together with funds destined to support of his or her research in the field of basic, clinical or applied sciences. The award will be granted bi-annually on a worldwide basis.

The award intends to honor achievements and to encourage further research in the field of medicine or biology of benefit to human health. Such achievements could include seminal scientific contributions to the basic biomedical sciences, epidemiology, parasitology, or to disease eradication efforts.

The award-winner will be selected by a committee composed of internationally prominent scientists.

Readers are invited to assist in nominating candidates for the Helmut Horten Research Award. The following should be noted:

1. Nominees should be proposed by scientists, physicians and institutions having detailed knowledge of the candidates’ research.

2. Nominations submitted by candidates themselves cannot be considered.

3. Nominations must be made on an official form obtainable, together with further information, from:

   The secretary of the Selection Committee
   Foundation Helmut Horten
   CH-6995 Madonna del Piano
   Switzerland

4. The deadline for nominations is November 15, 1990.
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