Tenure-track faculty position in wildlife ecology at Purdue University, Department of Forestry and Natural Resources to be filled at either the ASSISTANT or ASSOCIATE PROFESSOR level. Teaching responsibility (70%) includes teaching undergraduate courses in environmental conservation, wildlife ecology, and global environmental issues, and a graduate course in conservation biology (30%). The list of responsibilities includes the ability to conduct and develop a program in wildlife ecology. Ph.D. in wildlife science, or related areas is required. Applicants should include a document of teaching excellence and research evidence of the capability and commitment to establish such a program. Send resume, vita, and a statement of teaching philosophy and research interest. The application deadline is February 1, 1993.

Call for Nominations: The Department of Wildlife, Fisheries and Conservation at the University of Florida invites applications for a tenure-track position in wildlife ecology, starting July 1, 1993. For complete position information, contact: Dr. Dennis J. Held, Department of Wildlife, Fisheries and Conservation, University of Florida, Gainesville FL 32611. The University of Florida is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

ASSISTANT/ASSOCIATE PROFESSOR. Research positions exist in the area of wildlife biology at the University of Florida, in the Center for Wildlife Research, the School of Forest Resources and Conservation, the Department of Forestry and Natural Resources, and the Department of Zoology. Salary and rank depend upon qualifications. Applications are invited for tenured- and tenure-track positions in wildlife biology. Ph.D. degree is required. Send resume and three letters of recommendation to: Dr. Larry L. Richardson, Department of Zoology, University of Florida, Gainesville, FL 32610. The University of Florida is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

BIOCHEMISTRY/MOLECULAR BIOLOGY AND PHYSICAL BIOCHEMISTRY MEHARRY MEDICAL COLLEGE

Faculty positions will be available in 1994 in the Department of Biochemistry, at the level of ASSISTANT or ASSOCIATE PROFESSOR. Applicants must have a Ph.D. or M.D. degree, or both, and appropriate formal postdoctoral research experience. Joint appointments in clinical science departments are possible. We are seeking individuals who have potential or demonstrated competence in clinical biochemistry or in the use of molecular biological approaches to conduct research in molecular medicine, or on fundamental biochemical/cell biological problem(s). Selected individuals must also be capable of establishing and maintaining productive relationships with the teaching and administrative functions of the department of biochemistry. Successful applicants will be expected to develop/maintain a funded research program of high quality and to participate in the graduate and professional (medical, dental and allied health) schools teaching programs of the Department. Applicants should send curriculum vitae, names of four individuals who may be contacted for reference, and a summary (not exceeding 3 pages) of potential research project(s) to: Hennan J. Adzick, Ph.D., Chairman, Department of Biochemistry, Meharry Medical College, Nashville, TN 37208. An Equal Opportunity/Affirmative Action Employer.

HARVARD MEDICAL SCHOOL CENTER FOR BLOOD RESEARCH ASSISTANT PROFESSOR

The Department of Pathology at Harvard Medical School and the Center for Blood Research are jointly seeking to fill an Assistant Professorship. The candidate is expected to direct a vigorous, independent research program, both laboratory and clinical. Applicants should have completed postdoctoral studies at a reputable institution, Warren Alpert Building on the main quadrangle at Harvard Medical School. The field of search is broad and includes both cellular and molecular biology, and the recognition and study of blood diseases. The position requires a commitment to the development and maintenance of an active laboratory teaching program. Salary is commensurate with experience and research success. Individuals interested in this position should send curriculum vitae, and a statement of research interests, and three references to: Professor Timothy A. Springer, Search Committee Chair, Blood Center for Blood Research, Room 206A, 200 Longwood Avenue, Boston, MA 02115.

Harvard Medical School is an Affirmative Action/Equal Opportunity Employer. Qualified female and minority applicants are encouraged to apply.

ASSISTANT PROFESSOR (Physics and Physical Science). One-year temporary position beginning fall 1992. Position will be responsible for teaching a course on mechanics and made tenure-track the following academic year. Minimum qualifications: Ph.D. in physics preferred. ABEd's will be considered. Application deadline is August 15, 1993. Send resume and three letters of recommendation to: Dr. Nico Orsini, Chair, Department of Physics and Physical Science, Marshall University, 490 Hail Green Boulevard, Huntington, WV 25755. Marshall University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.
FACULTY POSITION IN MICROBIOLOGY

An ASSISTANT PROFESSORSHIP in microbiology is available. Qualifications include a doctoral degree and teaching experience. Major responsibilities are teaching microbiology to students in osteopathic medicine, optometry, pharmacy and Allied Health. Send curriculum vitae and names of three references to: Dr. Donald E. Lauber, Ph.D., Chairman, Department of Microbiology, Southern University of the Health Sciences, 1750 NE 167th Street, North Miami Beach, FL 33162.

The University of South Carolina, Columbia, invites applications and nominations for the position of DEAN of the College of Science and Mathematics. The Department of Science and Mathematics is responsible for administering the College's budget of approximately $17.5 million in state funding and $21 million in outside support. The College consists of seven departments and several institutes. Applicants should send a letter of application and a complete résumé to: Dr. Ralph E. White, Chairman of the Science and Mathematics Dean Search Committee, Department of Chemical Engineering, Swearingen Engineering Center 2C13, University of South Carolina, Columbia, SC 29208. (803) 777-6060, Fax (803) 777-8265. The University of South Carolina is an Equal Opportunity Employer and specifically invites and encourages applications from women and minorities.

MOLECULAR ELECTROPHYSIOLOGIST

The Department of Medicine, Section of Cardiology, invites applications for a tenure-track position at the rank of ASSOCIATE or ASSOCIATE PROFESSOR beginning as soon as possible. Applicants should have an M.D. or Ph.D. degree and a record of accomplishment in basic research in the area of molecular electrophysiology. Individuals with research experience in the area of molecular and cellular biology of excitable tissues will be given preference. Excellent departmental resources including newly designed laboratory space in the cardiovascular research center are available. Written applications including curriculum vitae, three letters of recommendation, and a description of research interests should be sent by September 17, 1993, to: Jeffrey M. Leiden, M.D., Ph.D., Professor of Medicine and Pathology, and Chief, Section of Cardiology, University of Chicago, 5841 South Maryland Avenue, BRH B608 MC06080, Chicago, IL 60637. The University of Chicago is an Equal Opportunity Employer and strongly encourages females and minorities to apply.

COLUMBIA UNIVERSITY DEPARTMENT OF OPHTHALMOLOGY

The department is seeking an outstanding individual with a Ph.D. or M.D. for a full-time, non-tenure track position as REDUX RESEARCH FELLOW in charge of the REDUX RESEARCH LABORATORY. The individual is to conduct basic research in ocular physiology with particular reference to the cornea. Studies on endothelial functions and permeability as well as mechanisms of corneal transparency are important. Candidates must provide evidence of significant research accomplishments. Applicants should submit current curriculum vitae with publications to: Anthony Donn, M.D., Department of Ophthalmology, Edward S. Harkness Eye Institute, 635 West 165th Street, Box 20, New York, NY 10032. The University takes affirmative action to ensure Equal Opportunity.

MOLECULAR MARINE BIOLOGIST

To teach biochemistry and molecular biology to undergraduates. Appointment is tenure-track at ASSISTANT PROFESSOR level. Salary commensurate with experience. Applications are welcome from all levels. Review of applications will begin February 25, 1994. Forward curriculum vitae, statement of research interests and names of three references to: Search Committee, Marine Science Department, University of Miami, Coral Gables, FL 33149.

SCIENCE welcomes placement of line classified ads by FAX. Please include name and telephone number for our corresponding FAX center: 202-682-0816

FACULTY POSITION

THE WEIZMANN INSTITUTE OF SCIENCE

The Department of Biochemistry at the Weizmann Institute of Science, Rehovot, Israel, is seeking applicants for a tenure-track position at the SENIOR SCIENTIST (ASSISTANT PROFESSOR) level starting in the fall of 1995. The successful candidate is expected to establish an independent research group. For full consideration, applications should be received by December 15, 1993. The Weizmann Institute is an Equal Opportunity Employer.

DIRECTOR OF CYTOGENETICS

Duke University Medical Center is recruiting an experienced Ph.D. or M.D. to direct its cytogentic laboratory. Depending upon the background of the candidate selected, the direction of the laboratory may include an independent appointment in pediatrics, obstetrics and gynecology, or pathology, with secondary appointments in the other two departments. The director is expected to develop a full research program and join in the ongoing research of various genetic/biochemical disorders. The lab currently processes about 1500 cases/year; the caseload is expected to increase. Training in molecular techniques is preferred. Candidates should be board certified by the ABMO.

Please send a letter of application and curriculum vitae to: William N.P. Herbert, M.D., Professor and Chief, Division of Maternal-Fetal Medicine, Chair, Search Committee for Genetics Laboratories, Duke University Medical Center, Box 3967, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.

(HEALTH RISK ASSESSMENT SUPERVISOR)

PUBLIC HEALTH

DHS3,072 to $39,468

Division of Public Health Service, Bureau of Health Risk Assessment, Concord, New Hampshire. The successful candidate will supervise, plan and assign work to staff performing environmental health risk assessments and related health risk assessment procedures as necessary. Minimum Qualifications: B.A. from a recognized college or university with major in environmental health science. Each additional year of approved formal education may be substituted for one year of work experience. Also required is six years of experience in an environmental health related area, two years of which shall have involved supervisory duties as well as the preparation of various health risk assessments, or related research. Further information contact Brooke Dupee at 603-271-4664. An official State Application for Employment may be obtained from, and returned to: The Department of Health and Human Services, 6 Elm Drive Extension, NH 03301, At- tention: Human Resources; Telephone: 603-271- 4286. A transcript must be attached to the application. Recruitment will remain in effect until position is satisfactorily filled. Equal Opportunity Employer.

FACULTY POSITIONS

The Department of Pharmacology and Molecular Biology at the Chicago Medical School is initiating the third phase of faculty recruitment for tenure-track positions at all levels. The Department welcomes applications from those candidates with an ongoing funded research program and experience in any aspect of gene expression or molecular/cellular chemical biology. Attractive benefits and start-up funds are available. The school is located in a modern facility adjacent to the very pleasant North Shore community of Lake Bluff, 38 miles from downtown Chicago with proximity to forest preserves and Lake Michigan. The department under new leadership has already recruited several faculty of high caliber. Exchanging a support program (Ph.D. and M.D./Ph.D.) are available. Please send current curriculum vitae, research plans and three names for reference to: Dr. Samson J. Jacob, Chairman, Department of Pharmacology and Molecular Biology, The Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064. The Chicago Medical School is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION

THE WEIZMANN INSTITUTE OF SCIENCE

The Department of Biochemistry at the Weizmann Institute of Science, Rehovot, Israel, is seeking applicants for a tenure-track position at the SENIOR SCIENTIST (ASSISTANT PROFESSOR) level starting in the fall of 1995. The successful candidate is expected to establish an independent research group. For full consideration, applications should be received by December 15, 1993. The Weizmann Institute is an Equal Opportunity Employer.

DIRECTOR, Center for Drug Evaluation and Research

The Food and Drug Administration seeks an outstanding individual to direct its Center for Drug Evaluation and Research (CDER). With facilities in Rockville and Beltsville, Maryland, CDER's research and regulatory activities support health care needs that range from basic gene therapy to major health problems due to drugs that are unsafe and ineffective and that produce labeling that is truthful and informative.

Qualifications include clinical experience, including drug development, pharmaceutical, clinical investigation or pharmacopeidiology of drugs, and managerial experience at the executive level in planning and directing broad, diverse international regulatory programs. The position is in the Senior Executive Service with a salary range of $92,900 to $111,800. Candidates may apply. Applicants are encouraged to send a recruitment bonus of up to 25% of base pay. Please contact Jaylene Wood at (301) 443-1755 for more information regarding qualification requirements and application procedures for this position. Applications will be accepted until September 10, 1993. An Equal Opportunity Employer.

CHAIR, DEPARTMENT OF OPHTHALMOLOGY

THE COLLEGE OF MEDICINE AT THE UNIVERSITY OF FLORIDA is searching for an individual to serve as Professor and Chair for the Department of Ophthalmology and to direct and coordinate the College's administrative leadership in programs of patient care, teaching and research. Minimum qualifications include an M.D. degree and a distinguished record of performance in teaching, clinical care and/or research with abilities to lead a highly productive academic department. The deadline for receipt of applications is October 1, 1993. The anticipated starting date is July 1, 1994. Reply by sending current curriculum vitae to: Dwight L. Evans, M.D., Chair, Ophthalmology Search Committee, Department of Psychiatry, University of Florida, Box 100256, Gainesville, FL 32610-0256. Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply and voluntarily identify themselves.

"HARD MONEY" POSITION: REPRODUCTIVE ENDOCRINE LABORATORY DIRECTOR

The reproductive research laboratory of the Division of Reproductive Endocrinology, Obstetrics and Gynecology at the University of Maryland School of Medicine is seeking a full-time Manager/Director. Funding independence is encouraged but not required. A Ph.D. degree in the biomedical sciences with experience in molecular biological techniques are required. Successful applicant is expected to join an established team of faculty, postdocs and technicians. Salary is competitive. Applications consisting of curriculum vitae should be forwarded to: Dr. E.B. Adashi, 405 West Redwood Street, Third Floor, Baltimore, MD 21201. University of Maryland is an Affirmative Action/Equal Opportunity Employer, M/F/H/V.

FACULTY POSITIONS

The Department of Pharmacology and Molecular Biology at the Chicago Medical School is initiating the third phase of faculty recruitment for tenure-track positions at all levels. The Department welcomes applications from those candidates with an ongoing funded research program and experience in any aspect of gene expression or molecular/cellular chemical biology. Attractive benefits and start-up funds are available. The school is located in a modern facility adjacent to the very pleasant North Shore community of Lake Bluff, 38 miles from downtown Chicago with proximity to forest preserves and Lake Michigan. The department under new leadership has already recruited several faculty of high caliber. Exchanging a support program (Ph.D. and M.D./Ph.D.) are available. Please send current curriculum vitae, research plans and three names for reference to: Dr. Samson J. Jacob, Chairman, Department of Pharmacology and Molecular Biology, The Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064. The Chicago Medical School is an Equal Opportunity/Affirmative Action Employer.
Molecular and Structural Biology

Battelle, Pacific Northwest Laboratories (PNL), is an international leader in the practical application of technology. Battelle PNL is dedicated to both basic and applied research to find ways to preserve our environment and keep America technologically competitive. Our Life Sciences Center has immediate openings for the following positions:

Department Manager, Biology and Chemistry

This position requires experience in leading a multi-disciplinary research organization and will provide technical leadership to over 100 staff with programs in cellular and molecular biology, structural biology, health effects studies, and radiological physics. Will be responsible for development of new programs and will facilitate integration of research programs with other laboratory organizations. The successful candidate must have a Ph.D. in biological sciences or a closely related field and an outstanding record in health effects research and molecular biology with applications in biotechnology, genomics, gene expression, or structural biology.

Manager, Basic Life Sciences Research Initiative

This position is responsible for the management of the PNL Life Sciences Center initiative to develop a broad program in basic life sciences research, with a focus on characterizing alterations in DNA structure and gene expression caused by radiation or chemical exposure. The initiative leader will also manage the Molecular/Structural Biology Section of the Biology and Chemistry Department. The successful candidate must have a Ph.D. in biological sciences with emphasis in molecular or structural biology. Experience in research on DNA damage, repair, enzymology, and structural analysis of DNA lesions is highly desirable.

Battelle PNL, one of the nine U.S. Department of Energy multiprogram research laboratories, is located in Southeastern Washington state and offers the advantages of a pleasant lifestyle and the extraordinary environment of the Pacific Northwest. Interested candidates should send a resume to: Battelle Recruiting Center, P.O. Box 999, Richland, WA 99352, ATTN: 8122 BAH, Principals Only. We are an Equal Opportunity Employer. Women and Minorities are encouraged to apply. Legal right to work in U.S. required.

CHAIR OF METEOROLOGY and DIRECTOR, COOPERATIVE RESEARCH CENTRE FOR SOUTHERN HEMISPHERE METEOROLOGY

Applications are invited for appointment jointly to a Chair of Meteorology in the Department of Mathematics at Monash University and Directorship of a new Cooperative Research Centre for Southern Hemisphere Meteorology (CRC SHM).

The Chair of Meteorology is funded jointly by Monash University and the Bureau of Meteorology. The Cooperative Research Centre is part of the Australian Government CRC program and brings together in a cooperative venture components of the research, operational and industry resources of Monash University, the Bureau of Meteorology, CSIRO Division of Atmospheric Research and of Applied Physics, and Cray Research (Australia). The expertise and research facilities contributed by the participating institutions represent a substantial contribution to the CRC SHM in addition to $1.5M per annum provided by the Commonwealth Government. The Centre was formally established on 1 July 1993; it is planned within the initial years of establishment that a substantial number of new research appointments to the CRC SHM will be available at Monash University and within the participating research institutions.

The Department of Mathematics at Monash University has a long standing involvement in and commitment to research and education in Dynamical Meteorology and Geophysical Fluid Dynamics within its Applied Mathematics section. The Cooperative Research Centre is focused on the Monash campus but will also have centres of activity within the participating research institutions. The research staff of these institutions are located predominantly within Melbourne in the Bureau of Meteorology Research Centre and the CSIRO Division of Atmospheric Research. The appointee to this dual position will provide the leadership necessary to establish a world class university-based cooperative centre for meteorological research and postgraduate education.

Applicants for this joint Chair/Director appointment will be expected to have an outstanding record of achievement relevant to the CRC SHM research and education programs. The research of the CRC SHM is aimed at meeting Australia’s needs in three key areas, namely stratospheric ozone, global transport modelling and southern hemisphere climate dynamics. The education program is aimed at creating a first class and comprehensive graduate program in Meteorology. A priority focus of the research program will be on stratospheric ozone and the dynamics controlling its distributions particularly in the Southern Hemisphere and Australian region; applications from appropriate candidates with requisite levels of achievement in this priority area will be of particular interest.

Salary: A professorial salary ($A77,900 per annum) is payable, with additional remuneration through the CRC negotiable. Superannuation, travel and removal allowance, and temporary housing assistance are available.

Further information of an academic nature and copies of the CRC SHM prospectus may be obtained from Professor WJ Ewens, Head, Department of Mathematics, Monash University, Clayton, Victoria, 3168, Australia, facsimile +61 3 565 4403, Dr D Gauntlett, Deputy Director, Bureau of Meteorology, G.P.O. Box 1289K, Melbourne, Victoria, 3001, Australia, facsimile +61 3 669 4548, and Dr G Pearman, Chief, Division of Atmospheric Research, CSIRO, PMB 1, Mordialloc, Victoria, 3195, Australia, facsimile +61 3 586 7600.

Information on application procedure and further particulars may be obtained from the Personnel Officer (Chair Appointments), Monash University, Clayton, Victoria, 3168, Australia, facsimile +61 3 565 6016.

Applications should reach the Director of Personnel Services, not later than Tuesday 31 August 1993. Council reserves the right to make no appointment or to appoint by invitation at any stage.

MONASH
AUSTRALIA'S INTERNATIONAL UNIVERSITY
UNIVERSITY OF KUWAIT  
Faculty of Medicine  
Health Science Centre

Pre-Clinical and Clinical Appointments:
Applications are invited for the following appointments in the Faculty of Medicine:

Anatomy: Professor/Associate/Assistant - Gross & Anatomy; Medical Embryology and/or Microscopic and Neuroanatomy.

Biochemistry:
Professor/Associate/Assistant Professor - Molecular Biology  
Associate Professor - Protein biochemist  
Associate Professor - Membranes  
Professor - Endocrinology

Community Medicine & Behavioral Sciences:
Professor/Associate/Assistant Professor - Biostatistician (1); Sociopsychologist (1); Environmental & Occupational Health (1); Community Medicine & Epidemiology (1); Occupational Epidemiology (1); Medical Psychology (1)

Microbiology:
Professor/Associate/Assistant Professor - Clinical Microbiology (2) (Experience in STD, Antimicrobial Chemotherapy, Respiratory Micro.); clinical Immunology (1)

Associate/Assistant Professor - Parasitology (1); Immunology (2); Clinical Virology (1)

Pathology:
Professor/Associate/Assistant Professor - Haematology; Clinical Chemistry  
Assistant Professor - Histopathology

Physiology: Associate/Assistant Professor - Endocrine Physiology (1); Renal Physiology (1); Respiratory Physiology (1); Neurophysiology (1); General Physiology (1)

Pharmacology: Associate Professor - Clinical Toxicologist (1)

Medicine: Professor/Associate/Assistant Professor - Rheumatology; Clinical Haematology; Infectious Diseases; Respiratory Medicine

Obstetrics & Gynaecology:
Professor & Chairman - Reproductive Medicine (1)  
Professor - Gynaecology (1)  
Associate Professor - Perinatology (2)  
Assistant Professor - Obstetrics & Gynaecology (4)

Paediatrics: Professor/Associate/Assistant Professor; biochemist (Ph.D. in Enzymology); Paediatric Nephrology; Paediatric Allergy & clinical Immunology; Pulmonary Medicine; Paed. Critical Care Medicine; Neonatologist; Emergency Medicine; Paed. Cardiology; Clinical Genetics

Radiology:
Associate Professor - Diagnostic Radiology; Physicist (Image Professing & Information Storage)  
Assistant Professor - Magnetic Resonance Imaging & digital radiographic techniques

Surgery:
Professor - Orthopaedics (2); Anaesthesia (1); Vascular Surgery (1)  
Associate Professor - Urology (1); Neurosurgery (1); Transplant (1)  
Assistant Professor - General Surgery (1); Anaesthesia (1); Urology (1)

Psychiatry: Professor/Associate/Assistant Professor (3)  
(Preference will be given to Arabic speaking candidates)
**Requirements for Appointment:** Applicants should possess a Ph.D. or an equivalent high professional qualification i.e. FRCS/MRCP/MRCOG/MRCPath/MD/American Board in their respective specialty and have conducted and published research in their field.

**Conditions of Appointment:** Total monthly salaries will be within the following scales according to qualifications and experience (1 KD = 1.9 St. Pound, US$ 3.5 approximately). Increment per year 20 KD.

### Professors:
- **With clinical appointments**
  - KD. 1210-1370 (8 increments)
- **Medically qualified with a Ph.D. in Medical Science**
  - KD. 1140-1300 (8 increments)
- **Non-Medically qualified**
  - KD. 1070-1230 (8 increments)

### Associate Professors:
- **With clinical appointments**
  - KD. 989-1149 (8 increments)
- **Medically qualified with a Ph.D. in Medical Science**
  - KD. 932-1092 (8 increments)
- **Non-Medically qualified**
  - KD. 875-1035 (8 increments)

### Assistant Professors:
- **With clinical appointments**
  - KD. 768-928 (8 increments)
- **Medically qualified with a Ph.D. in Medical Science**
  - KD. 724-884 (8 increments)
- **Non-Medically qualified**
  - KD. 680-840 (8 increments)

### Other Allowances:
- Social allowance will be paid in addition to the monthly salary as per the University regulations.
- Clinical allowances from the Ministry of Public Health for 10 months a year (i.e. the University academic year from September to end of June) for clinical service commitments as follows:
  - **Professor and Chairman**
    - KD. 450/
  - **Professor**
    - KD. 400/
  - **Associate Professor**
    - KD. 300/
  - **Assistant Professor**
    - KD. 200/

### Other Benefits:
Conference attendance. Gratuity. Furnished accommodation (electricity and water free of charge). Free medical treatment in Kuwait. Free annual roundtrip air tickets from country of citizenship or permanent residence for self and family up to three dependent children. Baggage and freight allowance. Education fees for maximum three children in Kuwait from elementary through high school. No taxation. Currency is transferable without restriction. 60 days paid annual leave.

**Method of Application:** Curriculum vitae in duplicate which should include the names of 3 referees; personal particulars; copy of the relevant pages of passport; qualifications with dates, career history with dates; teaching experience, research accomplishments and where appropriate clinical experience, should be sent no later than October 31, 1993 to:

**The Vice Dean Administration**  
(Recruitment Office)  
Faculty of Medicine  
Kuwait University  
P.O. Box 249 23  
13110 Safat, Kuwait  
FAX# 965/531-8454
CHAIR OF GENETICS

The Chair of Genetics will be vacated by Professor David Sherratt FRS from 1st April, 1994. As part of the recruitment process, a successor is sought with a proven track record within the broad area of genetics and who will give a personal lead in the University’s programme of expansion in this area of biological and biomedical research.

The Departmental interests in research and teaching focus on Genetics, Biotechnology and Molecular Parasitology. There is an established academic staff of 12, of which one lectureship is vacant at present. Research income is in excess of two million pounds annually; grant funded staff at present include 39 postdoctoral fellows, 6 graduate research assistants and 41 PhD students.

The accommodation falling vacant within the Department is sufficient for two large research groups. The University is also building a new biomedical research block linked to the Department where space can be made available for substantial new initiatives secured by the Chairholder.

Informal enquiries should be directed to Dr. R. G. Sutcliffe (Telephone: 041-339 8855, Ext. 5101/5104 or Fax: 041-330 5994).

Further particulars may be obtained from the Academic Personnel Office, University of Glasgow, Glasgow G12 8QQ, where applications (3 copies; 1 copy in the case of overseas applicants), giving the names and addresses of three referees, should be lodged on or before 31st October, 1993. In reply, please quote Ref. No: 7978.

TULANE UNIVERSITY/XAVIER UNIVERSITY
DIRECTOR OF THE TULANE-XAVIER CENTER FOR BIOENVIRONMENTAL RESEARCH

Tulane and Xavier Universities of New Orleans invite applications for the position of Director of the Tulane-Xavier Center for Biomedical Research. The Tulane-Xavier Center for Environmental Research, CBR, established in 1989, is the centerpiece of Tulane and Xavier Universities' environmental health, science, and engineering programs. The Center, which receives over $80 million in external funding, encompasses several major programs, including the South Central Regional Center of the National Institute for Global Environmental Change, the Superfund Basic Research Program, the Freepoint-McCollum Environmental Policy Institute and the Institute for Environmental Restoration and Waste Management.

The Director reports to the Chairman of the CBR Governing Board and works closely with the Presidents and principal investigators at Tulane and Xavier. The successful candidate is expected to be a nationally recognized leader in the area of environmental health, environmental sciences, or environmental engineering research, with a demonstrated record of competitive funding and administration of multidisciplinary research. A distinguished record of teaching and scholarship commensurate with a full professor appointment at the rank of tenured professor at Tulane or Xavier is preferred. The individual must be supportive of interdisciplinary research and education and have demonstrated capabilities in the development and implementation of one or more of the current CBR programmatic areas of study, which include health effects, risk assessment, exposure evaluation, risk management, environmental modeling, and environmental restoration and waste management, among others.

A current Curriculum Vitae, and three to five letters of recommendation should be submitted to:

Personnel Administration, c/o Shirley Watkins (SW 2624)
101 Annex
University of Utah
Salt Lake City, UT 84112
Closing Date for applications is August 31, 1993.

APPLICATIONS AND NOMINATIONS ARE INVITED FOR THE POSITION OF
DEAN
COLLEGE OF VETERINARY MEDICINE
Michigan State University

Michigan State University invites applications and nominations for the position of Dean of Veterinary Medicine. An individual is sought who can provide leadership for the continuing excellent development of instructional, research, clinical, and outreach programs and who will serve as a representative of the college in its interaction with other MSU colleges, the public, and the veterinary community. The dean of the College of Veterinary Medicine is the chief executive officer of the college and is responsible to the provost and the president for the general administration of the College.

Michigan State University enrolls approximately 40,000 students and is a research-intensive, land-grant institution with 14 colleges, including the College of Human Medicine and the College of Osteopathic Medicine. The 5,000 acre park-like campus is widely recognized as one of the most beautiful in the nation. The College of Veterinary Medicine consists of the departments of Large Animal Clinical Sciences, Small Animal Sciences, and the shared departments of Anatomy, Microbiology, Pathology, Pharmacology, and Toxicoology, and Physiology. In addition, the college contains the Animal Health Diagnostic Laboratory and the Veterinary Teaching Hospital, which is situated in a modern, state-of-the-art facility. The college’s $12 million annual general fund budget supports approximately 140 faculty and 60 support staff. The 400 veterinary students and 65 graduate students are enrolled in the DVM professional program, masters or doctorate programs, or intern and residency programs in various clinical specialties. There is also a veterinary technician program. Both the DVM and veterinary technician programs are fully accredited by the AVMA.

Applicants must have the DVM degree (or its equivalent), and an earned doctorate is preferred. Evidence of scholarship in research, teaching, and service and evidence of dynamic leadership are also necessary. Candidates must meet minimum standards for appointment as of the rank of professor (without tenure) in an academic department in the college. Expected starting date is May 1, 1994, or as soon as possible thereafter.

Handicappers have the right to request and receive reasonable accommodation.

Applications and nominations are requested by October 1, 1993, and should be sent to: Dr. John Kanene, Chairperson, Search and Nominating Committee, Dean of College of Veterinary Medicine, c/o Office of the Provost, 212 Administration Building, Michigan State University, East Lansing, MI 48824-1046.
The Right Chemistry With Beckman

**Product Planning Manager**  
**Method Based Systems**  

Requirements include an advanced degree in Chemistry or related science, with an MBA preferred; protein chemistry background essential, carbohydrate chemistry experience desirable; 5+ years current experience in the pharmaceutical or biotechnology industry required with specific knowledge of CE, HPLC and related software; 2+ years' marketing and sales experience necessary.

You will be responsible for the definition and evaluation of new product development for CE and LC based systems. This is a leadership position requiring strategic planning and positioning skills. The final metric is the effective delivery of new products.

**Marketing Applications**  
**Automated Systems**  
Sr. Applications Chemist  

Requirements include a Ph.D. in Biochemistry, Immunology or related areas, or 5+ years post-doc experience. An accomplished scientist with a marketing orientation and understanding of current customer demand with regard to immunoassays is preferred; excellent communication skills a must; travel required.

You will be responsible for adapting current methodologies for immunoassays and receptor binding analysis to automated systems. In this capacity, you will provide scientific direction to Beckman's robotics marketing program by developing solutions to meet customer needs. You will interact with both our customers and sales force, transferring results from the laboratory to the business of science. You will be required to conduct seminars, provide consultative advice and training to Beckman specialists and customers.

Consider Beckman, where you'll experience the right chemistry. We offer an excellent salary and benefits package. Qualified candidates are encouraged to submit a resume with salary requirements to:

**Beckman Instruments**  
So Cal Headquarters  
Gail Scott, Human Resources Dept.  
2500 Harbor Blvd., D-27-A  
Fullerton, CA 92635

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**THE AUSTRALIAN NATIONAL UNIVERSITY**

**Humanities Research Centre**

**VISITING FELLOWSHIPS 1995**

Applications are invited for visiting Fellowships in the Humanities Research Centre in 1995. Each year the Centre concentrates upon a special theme. In 1995 the theme will be 'Africa'. The Centre intends to organise three conferences around this theme as well as a conference on 'National Biography and National Identity'.

Applications from scholars working in any area of the humanities are welcomed, as a proportion of each year's Fellowships is reserved for those without special interest in the year's theme; the majority of Fellowships, however, will be awarded to those whose work is relevant to the annual theme or the subsidiary conference. Fellows are expected to work at the Centre, but are encouraged also to visit other Australian universities. Grants usually include a travel component and a weekly living allowance. Prospective applicants must obtain further particulars and application forms from:

**The Centre Administrator**  
Humanities Research Centre  
The Australian National University  
Canberra ACT 0200  
AUSTRALIA

Phone 61 6 249 2700, fax 61 6 248 0054.

Applications should reach the Secretary, The Australian National University by 31 October 1993.

Ref: HRC 7.7.1.

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**SYMPOSIUM**

**Inflammation in Cardiovascular, Lung, and Blood Diseases**

November 29-30, 1993  
Masur Auditorium  
National Institutes of Health  
Bethesda, Maryland

Cochairs:  
Peter Libby, M.D.  
Charles G. Cochrane, M.D.

The symposium is the twelfth in a series titled "Frontiers in Basic Sciences That Relate to Heart, Lung, and Blood Diseases," and is focused on progress in basic science disciplines and transfer of such knowledge to clinical research programs. Experts will present recent research results, views on the state of the science, current problems, and possible future developments in the area of inflammation in cardiovascular, lung, and blood diseases.

Presentations will be structured around the following topics:

- Leukocyte-tissue interactions in inflammation  
- Signal transduction in inflammation  
- Cytokine involvement in inflammation  
- Effector mechanisms in pulmonary inflammation  
- Inflammatory cardiovascular disease  
- Genetic manipulation of inflammatory cardiovascular and pulmonary diseases

For further information and registration materials, please contact: Ms. Carol Sadler, Prospect Associates, 1801 Rockville Pike, Suite 500, Rockville, Maryland 20852, (301) 468-MEET.

Sponsored by the National Heart, Lung, and Blood Institute
POSTDOCTORAL POSITIONS—PLANT VIROLOGY
The Department of Plant Pathology and Microbiology at Texas A&M University invites applications for a tenure-track position, 35% Teaching, 65% Research. The program addresses the need for Texas agriculture and contribute to our scientific knowledge of plant viruses. It is expected that the appointee will work closely with other researchers and extension specialists as needed to achieve these objectives. Teaching will include, but not necessarily be limited to, courses in plant virology and direction of graduate students. Candidates with postdoctoral experience and a record of scholarly research will be given preference. Screening of applicants will begin 15 October 1993 and continue until a suitable candidate is identified. Applicants should submit curriculum vitae, statement of professional goals and research interests, and three letters of reference to: Dr. Neal K. Van Alfen, Head, Department of Plant Pathology and Microbiology, Texas A&M University, College Station, Texas 77843-2153. Applications from women and minorities are encouraged.

POSTDOCTORAL POSITIONS—PLANT MOLECULAR VIROLOGY: Two available immediately:

1. To study targeted recombination between viral and cellular RNAs in transgenic plants. To investigate the mechanism of viral RNA recombination using mutants of plant virus replicase proteins. Experience in transgenic plant/protein biochemistry desirable. Send applications to: Dr. Jozef J. Bujarski, Plant Molecular Biology Center, Northern Illinois University, DeKalb, IL 60115. Affirmative Action/Equal Opportunity Employer.

2. To study the molecular mechanisms mediating epi-

phelial-stromal cell interactions and control of hormone responsiveness in the normal and cancerous breast. The relationships between ovarian hormones, growth factors, growth inhibitors and extracellular matrix molecules in growth regulation will be investigated using tissue recombinants of normal or tumorous breast epithelium with normal or cancer-derived stroma, and in situ under co-culture conditions in cell and organ culture. Experience in cell culture, immunocytochemistry, endocrine control of mammalian cell proliferation and tumor biology are desirable. Competitive salary and fringe benefits. Please send curriculum vitae and three letters of reference to: Dr. Sandra Z. Haslam, Physiology Department, Michigan State University, East Lansing, MI 48824. Telephone: (517) 355-6475, extension 1222, FAX: (517) 355-5125.

POSTDOCTORAL POSITION available to carry out isolation of enzymes involved in nucleotide biosynthesis in Streptomyces. Previous experience with enzyme assays and enzyme purification is required. Submit curriculum vitae and three letters of recommendation to: Dr. Gwendolyn B. Sancar, Department of Biochemistry, 122 Silliman Hall, Yale University, New Haven, CT 06520.

POSTDOCTORAL POSITION available immediately to study regulation of DNA damage inducible genes in Saccharomyces cerevisiae and higher eukaryotes. Previous experience in modern recombinant DNA technology required. Submit curriculum vitae and three letters of recommendation to: Dr. Gwendolyn B. Sancar, Department of Biochemistry, 122 Silliman Hall, Yale University, New Haven, CT 06520.

POSTDOCTORAL POSITION available to study cell biology. The University of North Carolina at Chapel Hill is seeking a postdoctoral research fellow to study ovary development and female fertility. Strong interest and training in endocrinology, molecular biology and cell biology is required. Submit curriculum vitae and three letters of recommendation to: Dr. Gwendolyn B. Sancar, Department of Biochemistry, 122 Silliman Hall, Yale University, New Haven, CT 06520.

POSTDOCTORAL POSITION available immediately to work on ag-

ic production. Previous experience in insect virology is required. Submit curriculum vitae and three letters of reference to: Dr. Gwendolyn B. Sancar, Department of Biochemistry, 122 Silliman Hall, Yale University, New Haven, CT 06520.

POSTDOCTORAL POSITION available immediately to work on viral interactions. Previous experience in molecular biology and virology is required. Submit curriculum vitae and three letters of reference to: Dr. Gwendolyn B. Sancar, Department of Biochemistry, 122 Silliman Hall, Yale University, New Haven, CT 06520.
SKIRBALL INSTITUTE OF BIOMOLECULAR MEDICINE

The Skirball Institute of Biomolecular Medicine at New York University Medical Center School of Medicine will open in September 1993. This institute will focus on molecular neurobiology, developmental genetics and molecular pathogenesis. Each program will comprise 1-2 groups at the professorial level and 8-9 junior groups at the assistant professor level. In addition, several groups will be recruited in structural biology encompassing x-ray crystallography, NMR, electron microscopy as well as protein and DNA chemistry. The structural biology groups will be integrated within the 3 major research programs. A total of 40 research groups will be recruited during the next year. All group leaders will receive tenured or tenure track appointments in the existing basic science or clinical departments of New York University School of Medicine to achieve optimal interaction between existing departments and the Skirball Institute.

If you would like to join us in this unique opportunity to build an exceptional research environment, send your curriculum vitae, bibliography, a short research proposal and a list of references to: Dr. Lennart Philipson, NYU Medical Center, 550 First Ave., New York, NY 10016 or to FAX # (212) 263-8951. If you need additional information, please call (212) 263-8950. EOE, M/F.

VETERINARY PATHOLOGIST

SmithKline Beecham Pharmaceuticals, a world leader in pharmaceutical research, is seeking an experienced Veterinary Pathologist in our Department of Toxicology to participate in the discovery and development of new therapeutic agents. Successful applicants must have demonstrated ability in experimental pathology with an M.S. or Ph.D. or through publication of scientific work. Participation in the design, conduct and reporting of toxicology studies is expected as are collaborative interactions with Research Departments: investigation of pathogenic mechanisms is emphasized. A background in laboratory animal pathology is desired and board certification by the American College of Veterinary Pathologists is preferred.

SmithKline Beecham offers excellent compensation and benefits, an attractive relocation policy and a collegial work environment that offers considerable opportunity for personal and professional growth. For confidential consideration, please forward your C.V. to: SmithKline Beecham Pharmaceuticals, Sr. Employment Administrator #M092, P.O. Box 1539, King of Prussia, PA. We are an Equal Opportunity Employer, M/F/D/V.

PROFESSORSHIPS

The Toyota Technological Institute (TTI), established in 1981 by a donation from the Toyota Motor Corporation, offers undergraduate and master's programs. To further strengthen education and research at the graduate level, TTI is adding a doctoral program which will focus on the following disciplines:

Information Aided Technology including Advanced Information Theory; Information Processing; Information/Motion Transformation Theory; Thermofluid Dynamics; Intelligent Design; and Information Integrated Realization Technology.

Future Industry-oriented Basic Science and Materials including Ultimate Structure & Properties; Molecular Design, Characterization & Properties; Noble Crystals & Semiconductors; Structure Controlled Materials; Singular Layers in Materials; and Beam Processing.

To commence this project, TTI is currently seeking 5-8 senior faculty members at the full professor level to join this community by April 1, 1995. Selected individuals will organize a unit laboratory, which will consist of 1 professor, 1 associate professor, 2-3 post doctoral research associates and students.

Support for research start-up expenses and an annual research budget will be provided, in addition to a salary and fringe benefit package. Details will be provided upon inquiry.

Qualified applicants are invited to mail their curriculum vitae, a statement of research interest and a list of publications, by October 30, 1993 to: Dr. M. Nagasawa (Vice-President).

TOYOTA TECHNOLOGICAL INSTITUTE
2-12 Hisakata, Tenpaku-ku, Nagoya, Japan 468
Fax inquiries (Japan 81-52-802-6069)
TTI is An Equal Opportunity Employer
Cooperative Research Centre For Aquaculture

**DIRECTOR**

**Salary Package to be negotiated**

A Cooperative Research Centre for Aquaculture is being established to develop a national research strategy to address the problems of industry, and to provide a comprehensive educational resource with direct relevance to the development of aquaculture in Australia.

The Australian aquaculture industry is in a period of rapid growth requiring a collaborative, systematic approach to obtaining solutions. The CRC will bring together a core of researchers and facilities to carry out research throughout Australia.

The Education programs will concentrate on higher degrees by research.

We are seeking an outstanding person with a proven record in management and research, preferably in the biological sciences.

As Director, you will attend meetings of the CRC Board of Management, manage the research of the Centre and oversee the development and management of the Education program.

You will provide high level tactical and strategic advice to the Board and make a significant contribution to the Centre's research, education and management policies. You should have a proven capacity for analysis and an ability to plan and implement actions within an environment of growth, risk and uncertainty.

The CRC is funded for 7 years. The initial appointment is for a term of 5 years with a capacity for renewal of the appointment at the end of the initial term.

Mr Tim Mangan (61 02 325 267) can be contacted for further details and Mrs Paulette Midgley (61 02 325 222) can provide a Job Description and Selection Criteria.

Applications should address the selection criteria and be sent to: Mr Bill Widerberg, Chairman, CRC for Aquaculture, OPO Box 1538, Hobart, Tasmania 7001, Australia.

Closing date for applications is 1 September 1993.

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**CELL BIOLOGISTS**

The Department of Medical Cell Biology of the Nemours Research Programs is expanding with the hiring of two experienced cell biologists at Assistant or Associate Professor level. Candidates must have at least two years postdoctoral experience and must be able to demonstrate a capacity and an enthusiasm for independent research.

One of the posts will be to develop a program of work in some aspect of intestinal cell biology, preferably using cultured cells. Also to collaborate in and support the existing research programs directed by three gastroenterology physician investigators. The second appointee will have interests in endocytosis and/or lysosomes function and will pursue independent and collaborative research in this field.

The Department of Medical Cell Biology is one of three research departments located at the Alfred I. duPont Institute, a rapidly growing multidisciplinary children's hospital that has close academic and clinical links with Jefferson Medical College, Philadelphia. The Department currently has a staff of 45 and is engaged in a range of research projects in which the techniques of molecular and cell biology are used to investigate problems related to child health and disease. Existing work relevant to these new posts is concerned with pinocytosis and lysosome function in embryonic nutrition, genetic defects and targeted drug delivery; and with gastrointestinal energy metabolism, transport, motility and inflammation.

Send a letter of interest, curriculum vitae, and salary history (required) to: Dr. J.B. Lloyd, Professor and Director, Department of Medical Cell Biology, Nemours Research Programs, P.O. Box 268, Wilmington, DE 19899. Applications will be accepted until the positions are filled.

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**SCIENTISTS**

Pharmacia P-L Biochemicals Inc., a leader in the research, production and marketing of molecular and cell biology products, is currently looking for Scientists to increase the R&D staff.

**NUCLEIC ACID CHEMIST** — Needed for laboratory synthesis and analysis of nucleoside phosphoramidites through application of basic organic chemistry principles to the improvement of synthetic methods. This position will require interaction with colleagues from a variety of internal company areas. Applicant should have a Ph.D. in Organic Chemistry, or the equivalent, and 2-5 + years experience in the synthesis and use of nucleoside phosphoramidites. Supervisory skills and the ability to interact with scientists from industry and academia are highly preferred. (Position CB1)

**RESEARCH ASSOCIATE/ORGANIC SYNTHESIS** — is needed for research in nucleic acids synthesis and development of the production method. Applicant should have a BS/MS degree in Organic Chemistry or related field, or the equivalent, and 2-5 + years experience in organic synthesis, nucleic acids chemistry and nucleoside phosphoramidites synthesis. (Position CB2)

**RESEARCH ASSOCIATES/MOLECULAR BIOLOGY** — Are needed to do sequencing, purification and cloning of DNA. Applicants should have a BS/MS degree in Molecular Biology, Biochemistry, Microbiology or related field, or the equivalent, and 2-5 + years experience, including the production of recombinant proteins and/or the use of automated DNA sequencers. (Position PB3)

We offer competitive salaries and comprehensive benefit packages. For consideration, send CV/resume and salary history and requirements, indicating position code, to: Manager, Human Resources, PHARMACIA P-L BIOCHEMICALS INC., 2202 N. Bartlett Ave., Milwaukee, WI 53202. An equal opportunity employer m/f/dv.

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**ATTENTION Science RECRUITMENT ADVERTISERS...**

**$50 SPECIAL**

Place your classified ad in any July or August 1993 issue of *Sclabex* and get double exposure. We'll display the same position announcement at the Employment Exchange during Science Innovation '93: The Conference on New Research Techniques—for only $50 more.

When you place your classified ad in *Sclabex*, simply let us know that you want to take advantage of the $50 SPECIAL and we'll do the rest.

The Employment Exchange will take place at Science Innovation '93 at the Hynes Convention Center in Boston, August 6-10. Thousands of scientists have been invited to participate. Act fast and you can reach this unique pool of candidates.

You can also take advantage of the special if you have recently advertised in *Sclabex*.

To obtain more information or to find out how you may interview candidates during the Employment Exchange at Science Innovation '93, contact: Jacqueline Roberts at 202-326-6737.
**RESEARCH SCIENTIST**

**Imagenetics** is a growing division of Amoco Technology Company focusing on “in vitro” medical diagnostics, specifically in the areas of genetic disease, cancer, and infectious agents. We have an immediate opening for a Research Scientist to join a team developing DNA probe diagnostics.

Primary responsibilities include acquiring human DNA regions of interest and converting these into prototype probes as well as developing new DNA technologies. Other duties include presenting team findings and providing specialized expertise in the areas of molecular oncology and human molecular genetics.

Candidate must have a Ph.D. and/or an M.D. with 3-5 years post-doctoral experience (industrial preferred), with an extensive background in human molecular genetics/ oncology and mastery of current recombinant DNA techniques. Knowledge of flow cytometry, immuno-histochemistry, and other cell analysis tests is desirable. Must be able to collaborate with team members effectively.

For immediate confidential consideration, please mail resume by AUGUST 20, to:

Amoco Research Center
Recruiting Coordinator
P.O. Box 3011
F-3/HR Code: SS-718
Naperville, IL 60515

Equal Opportunity Employer M/F/H/V

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**MEMORIAL UNIVERSITY OF NEWFOUNDLAND**

**DEAN OF THE FACULTY OF SCIENCE**

Memorial University of Newfoundland invites applications and nominations for the position of Dean of the Faculty of Science. The Faculty has an undergraduate enrollment of some 1300 students, over 300 graduate students, and 27 tenured faculty members. Among the qualities we are looking for are commitment to teaching, research and scholarship, skill in human relations, administrative experience. The candidate is expected to provide collegial leadership within the framework of a collective bargaining agreement in which teaching and research are equally valued.

Memorial University, the largest Atlantic region university in Canada, is the only university in Newfoundland. It is geographically and philosophically oriented to take advantage of opportunities and linkages in Europe and of its marine environment. Memorial University enrolls over 18,000 undergraduate and graduate students in six faculties and seven schools. Its main campus is located in St. John’s, a unique city of great charm. The Faculty of Science is organized into nine academic units: biochemistry, biology, chemistry, computer science, earth sciences, mathematics and statistics, physics, and psychology, and the Ocean Sciences Centre. It offers a wide variety of undergraduate and graduate degrees. Ph.D. programs exist in all departments.

It is anticipated the appointment will take effect not later than September 1, 1994, and preferably sooner. Written nominations or applications, the latter accompanied by a resume and the names of five referees, should be submitted by October 15, 1993, to:

Dr. Jaap Tuinman
Vice-President (Academic) and Pro Vice-Chancellor
Arts and Administration Building
Memorial University of Newfoundland
St. John’s, Newfoundland, Canada, A1C 5S7
Telephone: (709) 737-8246; Fax: (709) 737-2074;
E-mail: JTuinman@kean.une.mun.ca

In accordance with Canadian immigration requirements, first preference will be given to Canadian citizens and permanent residents. Memorial University is committed to the principles of employment equity and welcomes applications from all qualified candidates.

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**UNIVERSITY OF WOLLONGONG**

**BIOMEDICAL SCIENCE**

Three vacancies exist and may be filled at one or more of the following levels:

**ASSOCIATE PROFESSOR (Reference AC93 - 1035)**
**SENIOR LECTOR (Reference AC93 - 1025)**
**LECTURER (Reference AC93 - 1015)**

Appointments may be made to a Continuing or to a Limited Term - 5 years (Convertible) Appointment

This newly reorganized department within the Faculty of Health and Behavioural Sciences has a mandate to create a strongly research-oriented department dedicated to producing quality graduates in the health and biomedical sciences. A new building is being built to house the Faculty and will include excellent research and postgraduate facilities for the Department of Biomedical Science.

The department has a major program focusing on the roles of diet, exercise and genetic factors in health and disease. Particular research strengths are in factors leading to the development of the cluster of diseases related to insulin resistance: obesity, diabetes, dyslipidaemias, hypertension and heart disease. Complementary strengths are in biomechanics, exercise and environmental physiology, nervous control systems, and applied human anatomy.

Applicants with strong research and teaching credentials may come from a broad range of health and behavioural science backgrounds. Expertise in one or more of the research areas detailed above may be an advantage but demonstrated excellence in research is a major consideration. Appointment at Associate Professor level will require an applicant with a strong international research reputation. Further information from Professor Len Storlien 6142-213881; FAX 6142-214096. Closing date 9 September 1993.

Salary ranges (annual) Associate Professor (Level D): $A46,475 - $A66,625; Senior Lecturer (Level C): $A50,225 - $A57,913; Lecturer (Level B): $A41,000 - $A48,688. A limited term appointment may be converted to a continuing appointment, which is one until retirement. Further information on conditions of appointment from Mr Ross Walker (6142) 213934, FAX (6142) 213700 or e-mail r.walker@uow.edu.au Applications should quote the Reference, contain details of qualifications, employment history, research interests, publications and the names and addresses (including fax number or E-mail address) of three referees and be forwarded to the Recruitment Officer (Academic Staff). Please mark envelope 'Confidential - Appointment'. Mail address: University of Wollongong, Northfields Avenue, Wollongong NSW 2522 Australia. Electronic address j.hutchinson@uow.edu.au Secure Fax (6142) 213700.

Equality of employment opportunity and a smoke free work environment are University Policies.
The University of Texas Southwestern Medical School announces

The PEPR Program
Independent Research Fellowships for Physician-Scientists

The University Texas Southwestern Medical School has established a program that is designed to replace or supplement the usual postdoctoral fellowship. This program will provide three years of support for independent research carried out by Physician-Scientists in any aspect of biomedical science including the fields of Biochemistry, Genetics, Pharmacology, Molecular and Structural Biology, Immunology, Pathology and Physiology.

• Fellowship Terms
  Three years of support will be provided for a fundamental research project that will be carried out in laboratories at Southwestern Medical School.
  • $50,000-$60,000 annual stipend, depending on qualifications.
  • $78,000 research support, which includes salary for a Research Assistant.
  Junior Faculty Appointment.
  Independent laboratory space.

• Eligibility
  People holding both M.D. and Ph.D. degrees required with the first of these degrees awarded no earlier than 1988.

• Application
  By September 30, 1993, please submit a one-page abstract of the research proposal, together with a curriculum vitae and the names, addresses and telephone numbers of three referees.
  By November 1, 1993, please submit a research proposal, not more than eight pages in length, in double-spaced type. The proposal should be divided into Specific Aims, Background and Methods. It must include a full discussion of potential difficulties, both theoretical and practical, and should suggest methods by which these difficulties might be minimized or avoided. Please also send reprints of papers published by the candidate.

• Schedule
  Candidate interviewed • December, 1993.
  Announcement of awards • January 10, 1994.
  Fellowships start • July 1, 1994.

Applications and enquiries should be addressed to:
Dr. R. Sanders Williams, McDermott Center for Human Growth & Development,
The University of Texas Southwestern Medical Center, 5323 Harry Hines Blvd., Dallas, Texas 75235-8591
Telephone: (214) 648-1603 FAX (214) 648-1666

The University of Texas Southwestern Medical Center is an Affirmative Action/Equal Opportunity Employer.

CORNELL UNIVERSITY
COLLEGE OF VETERINARY MEDICINE
DEPARTMENT OF PATHOLOGY

The Department of Pathology at Cornell University College of Veterinary Medicine invites applications for a tenure-track position at the Assistant Professor or beginning Associate Professor level. The desired candidate holds a DVM and Ph.D. in cellular and/or molecular biology and is expected to establish a vigorous, extramurally funded research program that complements ongoing departmental projects in cell proliferation and differentiation, cell-cell and cell-substrate interactions, transmembrane signaling, protein-protein interactions, and molecular genetics. She/he will also participate in teaching of DVM and graduate students, and residents, as well as contribute to general departmental academic activities. Applicants should submit their curriculum vitae, a summary of their present and future interests, and three letters of reference from persons familiar with their research and teaching abilities to: Dr. Andrew Yen, Chairman, Faculty Search Committee, Department of Pathology, Cornell University College of Veterinary Medicine, Ithaca, NY 14853. Applications will be reviewed starting September 15, 1993.

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

Opportunities for Senior Scientists in Multi-disciplinary Research Program

The U.S. Environmental Protection Agency (EPA) is seeking two senior (S/T) research scientists with expertise in monitoring and assessment to lead exploratory research activities for the national Environmental Monitoring and Assessment Program (EMAP). EMAP is an innovative, multi-agency program designed to estimate status and trends in the condition of our nation’s ecological resources. Applicants should possess technical proficiency in terrestrial, freshwater, marine, and/or landscape ecology. Experience with ecological indicators, monitoring at regional and national scales, and/or multiple-scale integration is highly desirable.

Positions for exemplary scientists may be located at any one of the following Office of Research and Development (ORD) laboratories depending on the compatibility of the incumbent’s background with the mission of the particular laboratory: Atmospheric Research and Exposure Assessment Laboratory—Research Triangle Park, Environmental Monitoring Systems Laboratory—Las Vegas, Environmental Research Laboratory-Narragansett, Environmental Research Laboratory-Gulf Breeze, Environmental Research Laboratory-Duluth, Environmental Research Laboratory-Corvallis, or Environmental Research Laboratory-Athens.

Applicants must submit an original and three (3) copies of: (1) an SF-171, Application for Federal Employment; (2) a narrative statement specifically addressing their accomplishments and/or potential to provide leadership in the technical factors; and (3) the “EPA Applicant Race and National Origin Identification” form (optional). Applications WITHOUT documentation 1 and 2 will be considered INCOMPLETE and will not receive consideration for this position. Application material must be received or postmarked by September 15, 1993, and should be sent to:

Chauuta A. Gladney
U.S. Environmental Protection Agency
OARHOR/Executive Resources & Special Programs Division
401 M Street, S.W., Room 3910E, PM-224
Washington, DC 20460
ATTN: S/T-EMAP

Human Resources Contact: Chauuta A. Gladney, (202) 260-3336
Technical Contact: Thomas L. Baugh, (202) 260-5776

NOTE: APPLICANTS WILL BE DISQUALIFIED IF ALL SPECIFIED APPLICATION MATERIALS ARE NOT SUBMITTED. PLEASE SUBMIT ORIGINAL AND THREE (3) COPIES OF ALL APPLICATION MATERIALS. RESUMES ARE NOT ACCEPTABLE AS APPLICATIONS. THE U.S. EPA IS AN EQUAL OPPORTUNITY EMPLOYER.

School of Biological Sciences
LECTURESHIP IN EVOLUTION

Applications are invited for a lectureship in Evolution from people with active research interest in any aspects of the subject. The appointment will be made in the School of Biological Sciences (a top ranked School in the recent research assessment exercise conducted amongst British Universities by their Funding Council), on the Lecturer A salary scale £13,601 to £18,855 per annum.

Application form and further particulars are available from Mrs. Laura Fitch, Personnel Office, Sussex House, Falmer, Brighton, BN1 9RH. UK. Tel (0273) 606755 ext 3768. Closing date for receipt of applications: 10 September 1993.

AN EQUAL OPPORTUNITY EMPLOYER
The University of Chicago is an Affirmative Action Equal Opportunity Employer
POSTDOCTORAL POSITION available immediately to study endothelial cell injury caused by Rickettsia rickettsii. Experience in cell culture and biochemistry required. Expertise in transmission electron microscopy desirable. Study involves the role of oxygen radicals and peroxides in cell injury and macromolecular interactions. Send curriculum vitae, names of three references, and research background to: Dr. David J. Silverman, Department of Microbiology and Immunology, University of Maryland, 615 W. Baltimore, Baltimore, MD 21201. An Equal Opportunity/Affirmative Action Employer.

THE ROCKEFELLER UNIVERSITY NEW YORK. Structural Studies of Transcription. Positions available immediately for POSTDOCTORAL POSITIONS in the laboratory of Dr. Seth Darst to investigate structure-function relationships underlying mammalian transcription. Work in the laboratory involves biochemical, biophysical and structural investigations of assemblies and sub-assemblies of proteins and nucleic acids isolated at defined stages of the transcription process. Structural studies include X-ray crystallographic analysis of macromolecules, and electron microscopy and image processing for large A. protein-protein biochemistry, X-ray crystallography, or electron microscopy and image processing is desired. The isolation and characterization of macromolecular assemblies is emphasized and candidates with no crystallographic training are encouraged to apply. Send curriculum vitae and the names of 3 references to: Dr. Seth Darst, The Rockefeller University, Box 224, 1230 York Avenue, New York, NY 10021; FAX: 212-327-7477.

POSTDOCTORAL RESEARCH SCIENTIST OPPORTUNITIES IN INDIANA. The Institute for Medical Research in Indianapolis is seeking highly motivated applicants for POSTDOCTORAL RESEARCH SCIENTIST opportunities in the biosciences. 1-4 postdoctoral positions will be filled in the areas of molecular biology, cell biology, virology, immunology, biochemistry, and neuropharmacology. Experience required in nucleic acids and protein chemistry, molecular biology techniques, and cell culture. The Indiana Institute for Medical Research is an equal opportunity employer. Send curriculum vitae and names of three references to: Dr. David G. Craig, Institute for Medical Research, 7609 North Keystone Avenue, Indianapolis, IN 46250. FAX: (317) 843-5241.

POSTDOCTORAL POSITION available immediately for a candidate interested in studying tumors, hematopoiesis and the immune response in Drosophila. Experience in molecular biology or genetics required. Please send curriculum vitae and names of three references to: Dr. Tony E. Harris, The Rockefeller University, Department of Developmental Biology, University of Houston, Houston, TX 77024-5513. University of Houston is an Equal Opportunity/Affirmative Action Employer.

A POSTDOCTORAL POSITION is available immediately to study mechanisms of ethanol-induced alterations in intracellular trafficking in the liver. Specifically, identification of endosomes and other organelles of liver cells will be facilitated by the trafficking of ligands internalized into the liver by receptor-mediated endocytosis. Experience in cell biology, protein biochemistry and protein trafficking desired. Please send curriculum vitae and names, and addresses and telephone numbers of three references to: Carol A. Casey, Ph.D., Liver Study Unit, V.A. Medical Center, 4101 Woolworth Avenue, Omaha, NE 68198-8900. The University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL FELLOWS We solicit applications from bright, adaptable, adventurous scientists with backgrounds in quantitative biology for postdoctoral fellowships. Salaries in the range of $25,000 to $42,000 per year. Applicants must have completed Ph.D. or M.D. degrees, and must have demonstrated high quality research in one of the following areas: (1) the effects of alcohol and anesthetics on cell membranes. Investigations are well-supported by a NIH-funded Alcohol Research Center Program and involve preparation of biological and model membranes, HPLC, GC, binding assays and animal behavioral studies. Applicant is expected to apply ESR, NMR, or fluorescence techniques to investigate membrane- anesthetic interactions. Rank and salary are competitive and commensurate with experience. Send curriculum vitae, a statement of research interests and the names and addresses of three references to: Dr. Nathan A. Jones, Ph.D., Thomas Jefferson University, Department of Pathology & Cell Biology, 1020 Locust Street, Philadelphia, PA 19107; FAX: (215) 952-2218. Equal Opportunity Employer committed to a smoke-free work environment.

The Sulfobolus Genome Sequencing Project POSTDOCTORAL FELLOWS, GRADUATE STUDENTS AND TECHNICIANS

We have received funding to map and sequence the genome of the archaeabacterium Sulfobolus sulfidicus, developing methods for the analysis of the cell and functional and informational evidence that will emerge. The work will be done at laboratories at the University of Ottawa (R. L. Charlebois) and at the National Research Council Institute for Marine Biosciences (M. A. Ragunathan) and Dalhousie University (W. F. Doolittle) in Halifax. We are assembling an interactive team of at least twelve people, including 3-4 graduate students, 3-4 postdoctoral fellows, 2-3 graduate students and technicians. A strong interest in genomics and evolution is assumed. FAX curriculum vitae and names and addresses and telephone numbers of three referees, as soon as possible to: W. F. Doolittle, Department of Biochemistry, Dalhousie University, Halifax, Nova Scotia, Canada, B3H 4M1; FAX: (902) 494-1355. Employment Equity/Affirmative Action Employer. We encourage applications from qualified women, aboriginal peoples, visible minorities and persons with disabilities.

POSTDOCTORAL FELLOWSHIP available immediately for a Ph.D., M.D., or D.V.M., to participate in a study to assess the efficacy of therapeutic measures to ameliorate age-related cognitive impairments in nonhuman primates. Experience in neuropsychology or neuropsychopharmacology is preferred. Computer proficiency and current knowledge of sterile techniques are highly desirable. Send curriculum vitae and two letters of recommendation to: Donald J. Price, M.D., The Johns Hopkins University School of Medicine, 720 Rutland Avenue, Baltimore, MD 21205-2196.

MOLECULAR IMMUNOLOGIST VAMC, affiliate of the University of South Florida. Position available to a qualified POSTDOCTORAL FELLOW with experience in cell separation and culture, cytokine production, and quantitation. Interaction between the neuroendocrine and immune system in human subjects during exercise and the role of antioxidants is of particular interest. Experience in performing immunologic assays, including ELISA, is desirable. Send curriculum vitae and names, addresses and telephone numbers of three references to: Dr. Graeme L. Hammond, Department of Medicine, University of South Florida College of Medicine, P.O. Box 3333, New Haven, CT 06510. Yale University is an Equal Opportunity/Affirmative Action Employer and encourages women and minority group members to apply.

POSTDOCTORAL RESEARCH POSITION To study molecular and cellular mechanisms of signal transduction in relation to the pathophysiology of major psychiatric disorders and of action of psychotropic medication. Particular emphasis is directed towards investigations of G protein function, second messenger signaling, and the effects of antidepressants and mood stabilizing agents on gene expression. Position requires a Ph.D. or equivalent degree in neurochemistry, neurobiology, neuropsychopharmacology, or cellular biology, expertise in molecular methodologies recommended. Inquiries may be sent to: Drs. J. J. Warsh/P. P. Li, Section of Gastrointestinal, Pathology and Neuropharmacology, Laboratory of Molecular Medicine, Institute of Molecular Medicine, 250 College Street, Toronto, Ontario, Canada, M5T 1R8.

POSTDOCTORAL RESEARCH ASSOCIATE, Brookhaven National Laboratory. The Department of Applied Science has a position available for a Ph.D. in biological/physical/chemical research with experience in photochemistry. Knowledge of remote sensing, optics, and management of large computer databases is desirable. The successful candidate will participate in a research program to integrate situ data with satellite ocean color data in the development of biophysically robust algorithms for calculating primary productivity from remotely sensed variables. Candidates are asked to forward curriculum vitae, list of publications, and the names and addresses of three references to: Dr. Paul G. Falkowski, Department of Applied Science, Building 318, Brookhaven National Laboratory, Associated Universities, Inc., P.O. Box 5000, Upton, Long Island, NY 11973-5000. Equal Opportunity Employer, M/F/D/V.

POSTDOCTORAL RESEARCH SCIENTIST/ASSOCIATE RESEARCH SCIENTIST to study molecular basis of cancer development and evolution. Experience in molecular and cell biology, including library construction and screening, substrate hybridization, vector construction, retrovirus construction and sequencing, creation of transgenic mice. Positions available immediately. Salary negotiable. Contact: Dr. Nurul Sarkar, Medical College of Georgia, Augusta, GA 30912. Telephone: (706) 721-7587; FAX: (706) 721-7507. M/C is a Controlled Substance and Affirmative Action Employer.
CARDIOVASCULAR RESEARCH SCIENTIST

Merck Research Laboratories, a leader in pharmaceutical research, has an opening for a cardiovascular scientist experienced with in vivo models of vascular injury, thrombosis and thrombolysis and/or restenosis to join an active team of investigators involved in the development of novel cardiovascular therapeutics.

This position requires a Ph.D. or equivalent in pharmacology or physiology and at least two years postdoctoral experience. Independent academic or industrial research experience in the fields of thrombosis and/or vascular injury would be advantageous.

Excellent salary and benefit programs accompany this position at our modern research facilities located 25 miles northwest of Philadelphia.

Please send curriculum vitae with cover letter to: Personnel Manager, Ad #0-11, MRL Human Resources, WP4-2, Merck Research Laboratories, P.O. Box 4, West Point, PA 19486. EOE/AA/V/Employer.

MERCK Research Laboratories

MICROBIOLOGICAL ASSOCIATES, INC.

MICROBIOLOGICAL ASSOCIATES, INC. is a leading international provider of biological testing services to the pharmaceutical, personal care and biotechnology industries. We have an immediate opening for a Project Manager.

BIOCHEMICAL EPIDEMIOLOGY

This position requires a Ph.D. (or equiv. degree) with 3-5 years project management experience, especially in the areas of epidemiology, clinical chemistry or molecular biochemistry. Must have effective writing/oral communication, organizational and interpersonal skills. Exper. in budgeting, financial analysis, negotiations, systems management and subcontract management is very desirable. 2-3 years laboratory exper. and exposure to advanced laboratory QC procedures would be an asset.

Join us as we build on our 40-year tradition of scientific excellence. Our state-of-the-art facilities are located in the Washington, D.C. suburbs. Please send your C.V. and salary requirements to Human Resources Dept.

MICROBIOLOGICAL ASSOCIATES, INC. 9900 Blackwell Road Rockville, MD 20850 Fax: 301/738-1036 EOE/M/F/H/V

FORSCHUNGSZENTRUM JÜLICH GmbH

The KFA is a national research centre jointly financed by the Federal Republic of Germany and the Federal State of North Rhine-Westphalia with a staff of approximately 4500. The main research activities of materials research, information technology, environmental research and energy technology are part of a broad spectrum of basic research ranging from medicine and biotechnology to solid-state research and basic nuclear research.

At our INSTITUTE OF MEDICINE there is a vacancy for a scientist (male or female) as the

ASSISTANT/ASSOCIATE PROFESSOR IN THE FIELDS OF MAGNETOECEPHALOGRAPHY/MAGNETIC RESONANCE IMAGING/-SPECTROSCOPY

- Code 082/93 -

Candidates should have the Ph.D./M.D. degree or an equivalent training and postdoctoral education in magnetoencephalography or magnetic resonance imaging/-spectroscopy. Faculty are expected to develop sophisticated, externally funded research programs. The Department of Medicine has established a basic research program covering direct medical application for quantifying brain and cardiac functions in vivo using positron emission tomography. Please submit curriculum vitae, a description of research interests and the names of three references to

FORSCHUNGSZENTRUM JÜLICH GmbH
Personal- und Verwaltungsabteilung
- Personalbetreuung -
D- 52425 Jülich
University of Dundee

PRINCIPAL AND VICE CHANCELLOR

The University is proceeding to the appointment of a successor to Principal Michael Hamlin who has intimated his intention of retiring from the office of Principal and Vice Chancellor in August 1994.

The University seeks for this appointment an outstanding individual who can offer both academic leadership and effective management of a multi-faculty institution with well-established strengths and ambitions in both teaching and research.

The Appointment Committee set up by the University Court to nominate Professor Hamlin's successor invites applications from persons with the appropriate personality, qualifications and experience and would also be pleased to receive nominations from third parties. All communications, including personal applications, will be treated as strictly confidential and should be addressed to the Chairman of the University Court, Mr D G Robertson, CBE, c/o The Secretary of the University, University of Dundee, Dundee DD1 4HN. Further information about the post and the University may be obtained from the Secretary of the University (Mr R Seaton, Tel: (0382) 23181 Ext. 4006, Confidential Fax: (0382) 201604.

The University is an Equal Opportunities Employer.

Chair
Department of Neurobiology
University of Pittsburgh School of Medicine

Applications are invited for Chairperson of the Department of Neurobiology in the School of Medicine. The founding faculty of this newly organized department include: Eric Frank, Dan Simmons, Susan Smith, Gloria Hoffman, John Horn, Alan Humphrey, Carl Lagenaur, Cynthia Lance-Jones, Peter Land, Joseph Yip, Elias Aizenman, Willi Halfter, and Richard Koerber. Under direction of the new chair, the Department will be located on the 14th floor (45,000 gross sqft) of the recently constructed Biomedical Science Tower. The chairperson will receive a competitive package of start-up funds and new positions. He/She will be expected to build upon existing strengths of the Department and to lead in further growth of research and faculty development. It is also expected that the Chair will provide leadership for graduate and medical education and for bridging the basic and clinical sciences.

Interested persons should submit a letter of intent and curriculum vitae to:

Dr. Joseph Glorioso
Chairman of the Search Committee
Department of Molecular Genetics and Biochemistry
E1246 Biomedical Science Tower
University of Pittsburgh School of Medicine
Pittsburgh, PA 15261
(412-648-8106)

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

GENETHON

POSTDOCTORAL OR RESEARCH ASSOCIATES

Openings available immediately in positional cloning at Généthon, a human genome research centre supported by the Association Française contre les Myopathies. Preference will be given to individuals with prior experience in one or more of the following: positional and/or cDNA cloning, library construction, YAC manipulations, PFGE.

Curriculum vitae and the names of three references may be sent to Jean Weissenbach, Généthon, 1 rue de l'Internationale, BP 60, 91002 Evry cedex FRANCE.

NEW ENGLAND BIOLABS

New England Biolabs, a world leader in the production of restriction endonucleases and other related products, located 20 miles north of Boston on the ocean, has several positions available.

Post Doc--The molecular biology group is seeking a recent Ph.D. for a postdoctoral position to study enzymes involved in protein modification. Experience with cloning, enzymology or protein purification is strongly preferred.

Product Manager--To fill a position in our production group. Requires a B.S. or M.S. with experience in protein purification.

The scientists at New England Biolabs have the freedom to do basic research, manage their own time and experiments, and publish immediately. Compensation and benefits have few peers.

Candidates please submit curriculum vitae with three references to:

New England Biolabs, Inc.
Human Resources
32 Tozer Road
Beverly, MA 01915-5510
An Equal Opportunity Employer
Applications are invited for the position of Chief Technician in the following departments:

**Medicine:** Anatomy

1. **Microscopic & Gross Anatomy** (B.S. Biology, experience in histological techniques, modern microtomy and microscopy equipments. Applicant is expected to train and supervise departmental technicians in support of teaching and research programs)

2. **Electron Microscopy** (B.S. in Physics, Electronics or Biophysics, experience in modern instrumentations and preparations for both transmission and scanning Electron Microscopy).

**Community Medicine & Behavioral Sciences:**
He/She will be responsible for daily working of the department, ordering and checking equipment and supplies and ensuring adequate maintenance and service. He/She will be able to work in acting as liaison between the department and sales representatives and the MDL and organizing class material, also assisting with the preparation of demonstrations for teaching purposes, preparation of practical laboratories and for practical examinations.

**Microbiology:**
- **Virology**
- **Immunology**

He/She will supervise the Diagnostic service, assist in preparation of class for teaching and participate in research.

**Pathology:**
- **Histopathology**
- **Clinical Chemistry**

**Pharmacology:** **Toxicology**

Applicant should have extensive experience in gas chromatography, mass spectrometry and high pressure liquid chromatography.

He/She also have experience of budgeting and ordering and should have had a supervising role in managing technicians in an analytical/screening laboratory.

Candidate should have experience as a Clinical Laboratory technician and hold the F.I.M.L.S., or equivalent qualifications, with fifteen years experience including training. The applicant’s duties will be of multidisciplinary nature and will be both in the laboratory and in the field.

Salary will be in the range of KD. 312-528 per month (KD=1.9 stg.pd., US $3.5 approximately)

No income tax in Kuwait and currency is transferable without restriction. Furnished air-conditioned accommodaton. Electricity and water free of charge. Sixty days paid annual leave for each completed year of employment. Annual round trip economy class air tickets to the country of citizenship or permanent residence for self and family up to three dependent children. Free medical care in Kuwait.

**Method of Application:** Curriculum vitae in duplicate which should include the names of 3 referees; personal particulars; copy of the relevant pages of passport; qualifications should be submitted no later than October 31, 1993 to:

THE VICE DEAN ADMINISTRATION  
(Recruitment Office)  
Faculty of Medicine, University of Kuwait  
P.O. Box 24923  
13110 Safat, Kuwait  
FAX# 965/531-8454
Position Open

**DOCTORAL RESEARCH ASSOCIATE position in Molecular Biology**

A Ph.D. student for supported research is available for a Ph.D. and/or M.D. with strong background in Molecular Biology and/or Cellular Biology, to work on the molecular basis and on therapeutic aspects of pediatric leukemia. This position involves the study of the role of a novel gene in cell proliferation, receptor and ion channel alterations in aging; and the study of genes involved in the genetic program of mortality and alterations in DNA synthesis which are conserved in mammals. Applicants must be a citizen of the United States. Send curriculum vitae and three reference letters to: Dr. Gretchen Darlington, Huntington Center, 221 North Base Road, Cleveland, Ohio 44106. Boston College of Medicine, Huntington Center, 77030. Boston College of Medicine is an Equal Opportunity/Affirmative Action Equal Access Employer.

**NEARETHICAL MICROBIOLOGIST with ANIMAL MODELS EXPERIENCE**

The National Institute of Allergy and Infectious Diseases, Division of AIDS, Vaccine Research and Development Branch is offering a position for a Ph.D. level, experienced candidate (GS13/14). We will develop the National Cooperative Vaccine Development Groups for AIDS (NCVDG) which are the cornerstone of NIAID extramural research and development of novel AIDS vaccines. The successful applicant will work in the Preclinical Development Section of the Vaccine R&D Branch. The applicant will participate in all aspects of AIDS vaccine research and development including immunology (humoral and cell mediated immune responses, mucosal immunity), vaccine design, and animal evaluation of vaccines. Excellent benefits. Send resume to: NIH, Room 2B-01, Room 2B-01, Bethesda, MD 20892; Telephone: 301-402-1506. Closing Date: August 30, 1993. NIH is an Equal Opportunity Employer.

**BIOTECHNOLOGIST:** Laboratory position with rapidly growing biotechnology company in Madison, Wisconsin. Applicants must have good working knowledge of hybridoma technology and have at least 5 years of laboratory experience in production, cloning and growth of hybridoma cell lines. Salary based on experience. Excellent benefits. Send resume to: HARLAN BIOPRODUCTS FOR SCIENCE, Personnel Department, P.O. Box 44220, Madison, WI 53744-4220. Telephone: 608/277-2000, FAX: 608/277-2120.

**FORENSIC DNA RESEARCH AND CRIMINALIST POSITIONS**

The California Department of Justice is seeking molecular biologists for research positions in its DNA laboratory in Berkeley. The successful candidate will develop and validate individualization systems using DNA, testify in court regarding validated procedures, and train staff. Qualifications include a Ph.D. in molecular biology and a minimum of 2 years of independent research experience related to Forensic Science. Salary $41,177 to $49,777 per year. The deadline is December 31, 1993. Send applications to: California Department of Justice, Forensic Science Section, P.O. Box 40220, Madison, WI 53744-4220. Telephone: 608/277-2000, FAX: 608/277-2120.

**TOXICOLOGIST**

Commonwealth of Pennsylvania Department of Environmental Resources

The Pennsylvania Department of Environmental Resources (DER) is seeking a person with expertise in toxicology, risk assessment and risk management, and public health and safety. This person will provide expert advice and testimony in the above areas, review risk assessments and develop guidance on risk assessment and risk management, will participate in regulatory review as well as development and implementation of regulatory procedures, and will serve as a liaison with professionals in other agencies or academia. A doctorate degree in one of the above areas is required. Salary range is $41,890 to $56,176 annually. Applicants should send curriculum vitae and a statement of professional goals to: Pennsylvania Department of Environmental Resources, Division of Environmental Health, Attn: Dr. Roger Charles, P.O. Box 389, Harrisburg, PA 17120 by September 10th. For further information, contact Susan Bubin at 717-783-2021.

An Equal Opportunity/Affirmative Action Employer.
Center for Synchrotron Radiation Research
and Instrumentation
is seeking a

STRUCTURAL BIOPHYSICIST

A position in structural biophysics in the Department of Physics at Illinois Institute of Technology is currently open. It is anticipated that the initial appointment will be at the Research Assistant/Associate Professor level with conversion to tenure-track after two years. We are seeking an experienced Ph.D. macromolecular crystallographer with interest in the development and use of synchrotron facilities for diffraction studies.

IIT, through its Center for Synchrotron Radiation Research and Instrumentation, will be responsible for the development of several synchrotron beam lines at the Advanced Photon Source currently being constructed at Argonne National Laboratory near Chicago. The successful candidate will work closely with the Center staff on the development of two beam lines for the Industrial Macromolecular Crystallography Association (IMCA), a consortium of twelve major chemical and pharmaceutical companies. Upon commissioning of the beam lines, it is anticipated that this faculty member will become Director of the IMCA operation at the Advanced Photon Source.

Illinois Institute of Technology, founded in 1890, is a private technological university located in south-central Chicago. The Department of Physics has strong research program in biophysics, condensed matter physics, elementary particle physics and materials physics, and offers bachelor's, master's, and doctoral degrees.

To apply, please send a curriculum vitae and publication list to:
Professor P.W. Johnson, Chair
Department of Physics
Illinois Institute of Technology
Chicago, IL 60616 USA

Illinois Institute of Technology is an equal employment/affirmative action employer MF/HV.

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For over 100 years, Abbott research has been bringing science and technology together to make a difference in the way people live — here at home and in 130 countries worldwide. Today, your unique experience could help us expand our leadership as a Fortune 100 health care pioneer. Our Pharmaceutical Research Computing and Information Science Division provides leading edge, state-of-the-art information management, computational sciences and systems methodology to support the discovery and development of pharmaceuticals.

RESEARCH COMPUTER SCIENTISTS
Various Positions Available

This individual will be responsible for Fortran and C programming in support of data acquisition, lab automation and data management for analytical services laboratories. Involves programming in a mixed UNIX/VMS workstation environment using client/server integration, system analysis, integration and troubleshooting, as well as Oracle and X-Windows programming. Experience in software development methodologies is desirable. Entry-level Ph.D. in Chemistry, Physics, Signal Processing, Image Analysis or related disciplines, or equivalent experience required. Reply to Job# 59446.

You will be involved with a highly visible computer system project which will focus on the development of a global reporting system. We need a team-oriented individual who has made a significant contribution in the development of a sizable system. This position requires a scientific education (BS/MS) or equivalent work experience. Ability to interact with diverse client organizations, and possess project team management capabilities and analytical skills. Clinical research and/or validation experience is desirable. Reply to Job# 59896.

The qualified candidate will provide leadership on Drug Delivery Software Systems analysis and programming to support the laboratory automation needs of pharmaceutical research. We require a MS in a scientific discipline and 3-5+ years of software analysis design and development or a BS with equivalent work experience. This must include VAX knowledge and proficiency in C, Fortran, or other structured programming languages. Familiarity with software development methodology and database management systems is expected, as is demonstrated experience in laboratory automation, validation issues or related fields. Project management skills are required. Macintosh software development a plus. Reply to Job# 59924.

Abbott provides an excellent salary and benefits package including profit sharing and a stock retirement plan. We are located in an attractive suburban setting approximately 30 miles north of Chicago. For confidential consideration, please send a resume and salary history (INDICATING APPROPRIATE JOB#) to: Linda DeLavallade, D-583, AP6D, Abbott Laboratories, One Abbott Park Road, Abbott Park, IL 60064. Abbott is an Affirmative Action Employer/Smoke-Free Environment.

ABBOTT LABORATORIES

Experience The Abbott Edge.
Osiris Therapeutics is a developer of cellular transplants and cell-matrix products to regenerate injured or defective mesenchymal tissues such as bone, cartilage, ligament, muscle and marrow stroma. The Company is seeking highly motivated, creative scientists to direct and conduct research and product development using the Company’s patented stem cell technology. Opportunities exist for Research Managers and Scientists (M.D./Ph.D.) and Research Associates (M.S./M.S.).

Cell Culture Research and Operations
Develop and implement protocols for Mesenchymal Stem Cell isolation and expansion for use in preclinical and clinical studies, develop defined media and develop methods for histological and immunohistochemical characterization of these cells and their progeny.

Molecular Biology
Experienced Research Manager required to direct programs designed to isolate, clone and express the growth factors and control elements involved in human Mesengenesis leading to potential products in gene therapy and biopharmaceuticals.

Biomatrix Development
Research Scientists to develop materials and methods for stem cell delivery and implantation. Experience required with the manipulation and characterization of collagens, biological and organic polymers and/or ceramic biomaterials, and tissue/matrix interactions.

Product Development
Product Managers to direct development of Tissue Regeneration products. Industrial experience leading to commercial products for treatment of cartilage, bone and related tissues is required, particularly cell-based technologies.

Preclinical Studies
Manager and several Research Associates, with experience in developing and conducting orthopaedic implant studies in rabbits, dogs and other appropriate species, to test the Company's Tissue Regeneration products prior to FDA approval of human clinical studies.

Osiris Therapeutics, Inc. is co-located within the University Hospitals of Cleveland and adjacent to Case Western Reserve University, which together form Ohio's largest biomedical research organization. The Company offers competitive wages and benefits and an attractive stock option plan. Prospective candidates are encouraged to send resumes and supporting credentials to: Osiris Therapeutics, Inc., P.O. Box 1980, Cleveland, Ohio 44106-0180.

Osiris Therapeutics is an Equal Opportunity Employer

OSIRIS THERAPEUTICS, INC.

DIRECTOR
Biotechnology Area Programs
Colorado Advanced Technology Institute (CATI)

Position requires operational management skills in leading public/private partnerships serving academic and business development programs in biotechnology for economic development in the State of Colorado. The Director heads the Colorado Institute for Research in Biotechnology (CIRB), which includes a newly established RNA Center, and oversees the fiscal and organizational planning of its Bioprocessing Center and the State's support of the Colorado Biomedical Venture Center (CBVC). The position affords an opportunity for professional growth in an attractive urban Denver environment, with superb opportunities for recreational and intellectual pursuits, and family development.

The successful candidate will have an advanced degree in biotechnical sciences, and experience in program management of public/private/academic joint research and development efforts. A demonstrable ability to coordinate proposals with public and private funding sources is a requirement. Knowledge of Colorado's biotechnology industry and academic strengths will be highly valued.

This position reports to the Executive Director, which is responsible to a board of CATI Commissioners appointed exclusively from the private sector by the Governor of Colorado. CATI is an agency of the State of Colorado.

The compensation for this position consists of a base salary in a range, depending on qualifications and experience, with a midpoint of $55,000 plus benefits. Send resume and three references by Sept. 30, 1993, to: Phillips V. Bradford, Sc.D., Executive Director, CATI, 1625 Broadway, Suite 700, Denver, CO 80202. CATI is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW
(The mutagenesis of trypanosomal triosephosphate iso-

本研究是由TIM part of an ongoing effort aimed at the

This study of TIM is part of an ongoing effort aimed at the

Detailed biochemical characterization of the new variants will be an important aspect of the work. The mutagenesis will be complemented by model-building studies based on known crystal structures of wild type trypanosomal TIM and of existing variants of TIM, and by further structure determinations of the new variants.

For this work we are looking for a postdoctoral fellow with experience in molecular biological and biochemical techniques and with an interest in the relationship between structure and function of proteins. This research is supported by a grant from the EU-BiOIDE programme, the appointment will be for two years. The salary will be according to the EMBO guidelines. Starting date: as soon as possible, not later than 1 January 1994.

Please contact Dr. Rik Wierenga (EMBL, Postfach 10 22 09, D-69012 Heidelberg, Germany, tel +49 6221 387 256; internet wierenga@embl-heidelberg.de). Please provide a cv and the names of two referees. The EMBL has a strong interest in research focusing on the structure function relationship of proteins. This research is carried out in an international and stimulating environment. The EMBL is well equipped for molecular biological studies, protein crystallographic structure determinations and has excellent model-building facilities.
RESEARCH OPPORTUNITIES IN BIOENGINEERING

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

RESEARCH ASSOCIATE, CORN TRANSFORMATION (JOB #DR-MSY)

Immediate openings are available to conduct experiments regarding the evaluation of agronomic genes in transgenic corn plants and progeny. EDUCATION/EXPERIENCE: BS degree or equivalent plus 2 years directly related lab experience; or MS degree. A good understanding of corn transformation and tissue culture is desirable. Knowledge of one or more of the following areas: genetics, plant physiology, cell biology and biochemistry.

Applications received by SEPTEMBER 3, 1993 will be assured of consideration. However, applications will be considered until the positions are filled.

Pioneer Hi-Bred International, Inc. is an Equal Opportunity employer. Please send TWO (2) resumes and indicate in your correspondence the JOB #, the names, addresses and telephone numbers of three references to:

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

DIRECTOR
UTAH SUPERCOMPUTING INSTITUTE
AND
SPECIAL ASSISTANT TO THE PRESIDENT FOR INFORMATION SCIENCES

Applications and nominations are invited for the dual position of Director of the Utah Supercomputing Institute and Special Assistant to the President for Information Sciences at the University of Utah. The position will be filled with the highest credentials in high performance computing, who will direct the Institute, collaborate with faculty in obtaining extramural support, and develop industrial partnerships and applications in high performance computing. The successful candidate will supervise a staff dedicated to forging collaborative interactions and with providing support to faculty and students with high performance computing and communications needs. The Director will report to the Vice President for Research. In the capacity of Special Assistant to the President, the successful candidate will advise the President on coordination of campus computing activities. This charge is interpreted broadly to include the operation of networks, the increasingly close relationship between computing and telecommunications, instructional computing, administrative data processing, etc., in order to ensure maximum attention to the computing and communications needs of the faculty, staff, and students, at reasonable costs. It is anticipated that the successful candidate will qualify for a concurrent faculty appointment in one or more academic departments. A Ph.D. degree or equivalency in a science or engineering discipline is required, with expertise in high performance computing. Applicants should have at least 5 years experience in organized research, in addition to a demonstrated record of leadership and administrative experience. Familiarity with national supercomputer centers and funding agencies is highly desirable.

Past and present employers will be contacted unless otherwise requested in writing. The University is an AA/EO employer and encourages applications from women and minorities, and provides reasonable accommodation to the known disabilities of applicants and employees.

A letter of application, a current curriculum vitae, and three to five letters of recommendation should be submitted to:

USI Director and Special Assistant to the President
for Information Sciences Search Committee
C/O Office of the Vice President for Research (PB-2693)
210 Park Building
University of Utah
Salt Lake City, UT 84112

Applications will be accepted until the position is filled.

Government of Canada
Gouvernement du Canada

Visiting Fellowships in Canadian Government Laboratories
1993-1994

The Government of Canada offers visiting fellowships to provide young scientists with the opportunity to work with well-established research groups in Canadian government laboratories. These fellowships are tenable in the laboratories of the following departments and agencies:

Agriculture Canada
AECL Research
Canadian Museum of Nature
Canadian Space Agency
Communications Canada
Energy, Mines and Resources Canada
Environment Canada
Fisheries and Oceans Canada
Forestry Canada
Health and Welfare Canada
National Defence
National Research Council Canada
Public Service Commission

Eligibility: Applicants must have received a doctorate from a recognized university within the last five years. There are no citizenship restrictions. Successful candidates who are not Canadians or permanent residents must satisfy Canadian immigration requirements.

Stipend: Fellowships have an annual value of $35,184 plus a travel allowance.

Duration of tenure: Appointments are made for one year; renewals for a second year are possible.

Date of submission: The deadline for receipt of applications is November 15, 1993.

For further information, contact the:

Visiting Fellowships Officer
Natural Sciences and Engineering Research Council of Canada
Ottawa, Ontario, Canada K1A 1H5
Telephone: (613) 996-4363
ANNOUNCEMENTS

The American Health Assistance Foundation invites applications from researchers at non-profit institutions for the following programs:

**Alzheimer's Disease Research:** grant awards of up to $100,000 per year for up to 2 years (renewable) for research into the causes and treatment of Alzheimer's disease. Application deadline: November 1.

**Glaucoma Research:** grant awards of up to $225,000 per year for up to 2 years (renewable) for research into the causes and treatment of glaucoma. Application deadline: November 30.

**National Heart Foundation Grants** (formerly Coronary Heart Disease Research): starter grants of up to $15,000 per year for 1 year (renewable) for research into the cause and treatment of stroke or cardiovascular disease. To qualify for a starter grant, the investigator must be an assistant professor (or equivalent) beginning an independent research career. Application deadline: November 1.

For information and application forms contact: Research Grants Manager, American Health Assistance Foundation, 15825 Shady Grove Road, Suite 140, Rockville, MD 20850; Telephone: (301) 948-3244.

COURSES AND TRAINING

**HOW TO MAKE MICROCAPSULES—A HANDS-ON COURSE**

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COMPUTER MARKETPLACE

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Research Genetics

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**MARKETPLACE**

**Circle No. 1 on Readers' Service Card**
Quantum Red™ tandem dye provides three color capabilities for virtually all flow cytometers. Simultaneous analysis of multiple cell populations or fluorescence gating is now possible. Quantum Red Offers:

- Lower emissions in PE channel compared to other tandem dyes
- Less compensation required than in previous generation third color dyes
- Equivalent brightness when compared to PE
- Minimal compensation required for two color analysis with FITC labels
- Economical cost

Quantum Red is available conjugated to:

- Streptavidin (Sigma Product No. S 3402)
- Selected CD markers
- Isotype controls

**Three Color Analytical Cytology with Quantum Red**

Simultaneous CD4, CD8 measurements using CD3 cells as the gate criteria. Whole blood was labeled with CD3-PE, CD4-Quantum Red and CD8-FITC in a single tube.

Sigma Immuno Chemicals

Sigma Chemical Company, PO Box 14508, St. Louis, MO 63178, USA. Tel. 1-800-325-3010, Fax 1-800-325-5052.

In Australia: Tel. 008-800-097, Fax 008-800-096
In Belgium: Tel. 078 11 47 47, Fax 078 11 47 45
In France: Tel. 05 21 14 08, Fax 05 03 10 52
In Germany: Tel. (0130) 5150, Fax (0130) 6490
In Great Britain: Tel. 0800 373731, Fax 0800 378785.

Circle No. 25 on Readers' Service Card
New Products For Cell Adhesion and Tumor Biology Research

Two New Elisa Kits

sELAM-1 ELISA Kit*
Uses: Monitoring of sELAM-1 (soluble Endothelial Leukocyte Adhesion Molecule-1) levels in normal as well as number of pathological conditions such as cancer, rheumatology, infectious diseases, allergies, transplant rejection and inflammatory diseases appears to have significant research interest.
Range: 1.6-50ng/ml. Sensitivity: <1.6ng/ml.
Rapid: Total incubation only 2 hours, 15 minutes

sLECAM-1 ELISA Kit*
Uses: Altered levels of sLECAM-1 (soluble Leukocyte Endothelial Cell Adhesion Molecule-1) have been found in disease states including sepsis, HIV-infection, neoplastic diseases, neonatal infection, transplantation and insulin dependent mellitus.
Range: 0.3-25ng/ml. Sensitivity: 0.3ng/ml.
Rapid: Total incubation only 2 hours, 15 minutes

BioSource International offers an extensive line of MAb, ELISA Kits, and cytokines for the study of cellular adhesion, tumor biology and immune regulation.

Monoclonal Antibodies Against:
• CD11a
• CD11b
• CD11c
• CD44
• CD44v exon v3-v4
• CD44v exon v5
• CD44v exon v6
• CD44v exon v7
• CD44v exon v8
• CD44v exon v9-v10
• ICAM-1
• ICAM-2
• ICAM-3
• HER-2 (c-erbB-2)†

Other ELISA Kits available from BioSource:
• mIL-1α†
• hIL-2
• hIL-2 Receptor
• hIL-8/NAP-1*
• hIL-10
• h & m SAA
• hIL-6
• hIL-6 Receptor
• hTNF-β*
• sTNF Receptor (75 kDa)†
• sICAM-1*
• hSCF/C-Kit Ligand†
• sTNF Receptor (60 kDa)†

If you don’t see the kit you’re interested in, call us — it’s probably under development.
Please contact BioSource International for your free copy of our 1993/94 Research Catalog containing over 600 reagents and assays for studies in cell biology and immunology.
CAUTION: FOR RESEARCH USE ONLY.
NOT FOR USE IN DIAGNOSTIC PROCEDURES.
†Available soon.
*Manufactured by Bender MedSystems
Photo from Bender MedSystems, Austria

Bender MedSystems
Tel: (800) 242-0607 • Fax: (805) 987-3385
950 Flynn Road, Suite A, Camarillo, CA 93012

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