A temporary (12-18 month) non-tenure-track faculty position is available at the University of Florida for a PLANT ECOLOGIST. Applications from Ph.D. holders of all ranks will be accepted, but the available salary is appropriate for a POSTDOCTORAL RESEARCH FELLOW or a SABBATICAL VISITOR. The person will teach a maximum of one course per semester and interact with graduate students and an ecologically stimulating environment. Send curriculum vitae and statements of interest with names of three referees by August 15, 1994, to: Francis E. Putz, Department of Botany, University of Florida, FL 32611—8526, FAX 904-392-3993, from whom further details can be obtained. An Equal Opportunity/Affirmative Action Employer in all its categories: Positions Open, Meetings, Announcements, Courses and Training.

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POSITIONS OPEN

The Department of Biology at Widener University invites applications for a full-time VISITING ASSISTANT PROFESSOR (non-tenure-track) with specialities in VERTEBRATE ZOOLOGY/DEVELOPMENTAL BIOLOGY. Applicants must have a Ph.D. in directing undergraduate research for the academic year 1994–1995. It is anticipated that a new tenure-track position, possibly in this area, will be authorized for the academic year 1995–1996. A commitment to understanding and teaching excellence is essential, and the Ph.D. degree is required. Duties include a course in comparative vertebrate anatomy. Send curriculum vitae, the names of three references, and copies of graduate transcripts to: Search Committee Chair, Department of Biology, Widener University, Chester, PA 19013—5792. (FAX: 610-499-4059) (Internet: pfjotany@cyber.widener.edu.)

ASSISTANT AND ASSOCIATE PROFESSOR VERTEBRATE DEVELOPMENTAL BIOLOGY

Applications are invited for a tenure track position in the intracellular signaling, neuronal plasticity, and neurochemistry of Washington School of Medicine. Applicants should have a Ph.D. or M.D. degree with at least three years of postdoctoral experience. The successful candidate will be expected to establish a funded research program in the area of vertebrate development and participate in graduate education in this field. Applicants will also be expected to contribute to team-taught courses in human anatomy/embryology or neuroscience for health professionals. Candidates should send curriculum vitae, a one-page description of research plans, a three-page letter of reference by September 15, 1994, to: Dr. Thomas Reh, Search Committee Chair, Department of Biological Science, SM-20, University of Washington, Seattle, WA 98195. The University of Washington is an Affirmative Action/Equal Opportunity Employer.

NEUROPHARMACOLOGIST/NEUROSCIENTIST

The Department of Pharmacology at the Texas Tech University Health Science Center School of Medicine invites applications for two tenure-track positions at the ASSISTANT AND ASSOCIATE PROFESSOR level. The Department has recently expanded and is seeking outstanding scientists with an M.D. or Ph.D. degree who have a strong record of achievement. General areas of interest include the molecular basis of signal transduction, and the neurochemical or gene regulatory mechanisms of drug action. Interested applicants should send their vita and three letters of reference by September 1, 1994, to: Dr. Louis A. Chiodo, Chairman, Department of Pharmacology, Texas Tech University Health Science Centers, School of Medicine, 3601 4th Street, Lubbock, TX 79430. An Equal Opportunity/Affirmative Action Employer.

SENIOR ASSOCIATE DEAN, UNIVERSITY OF WISCONSIN MEDICAL SCHOOL, MADISON

Reporting directly to the Dean of the Medical School and in close cooperation with the Dean, the position will be responsible for the operations of the School in pursuit of its missions of education, research and clinical/community service, including: supervision and coordination of the Associate Deans; coordination of selected clinical activities of the School including liaison with clinical practice organizations and hospital affiliations; working closely with Department Chairs and Center Directors to fulfill the needs of the respective departments. The Senior Associate Dean will represent the Dean in his absence. Major qualifications include a successful record of general administrative, financial and clinical experience, formal administrative training is preferred. M.D. degree or equivalent preferred. Academic accomplishments in clinical practice, research, and/or education are required. Candidates must be board certified. Candidates must be able to work effectively with a wide variety of people. An Equal Opportunity/Affirmative Action Employer.
Accept the Navy Challenge

Become a member of an elite research and development community involved in basic and applied scientific research and advanced technological development for tomorrow’s Navy.

Listed below are anticipated career opportunities at various naval activities for senior scientists and engineers to perform a variety of research in theoretical and experimental fields and to advise senior naval leadership on science and technology. These are active research positions, not management positions.

**Naval Surface Warfare Center**
**Carderock, MD**
- Sr Research Scientist for Theoretical and Experimental Ship Hydrodynamics (ID# ST-00-94)
- Sr Research Scientist for Fluid Structure Interaction and Structural Acoustics (ID# ST-01-94)
  Apply to:
  Naval Surface Warfare Center
  Carderock Division (ID# )
  Bethesda, MD 20084
  (301) 227-2870

**Naval Undersea Warfare Center Division**
**Newport, RI**
- Sr Research Scientist for Acoustic Array Systems (ID# NUWC-ST-94-1)
- Sr Research Scientist for Undersea Weapon/Vehicle System Technology (ID# NUWC-ST-94-2)
- Sr Research Scientist for Active Sonar Classification (ID# NUWC-ST-94-3)
- Sr Research Scientist for Acoustic Signal Processing (ID# NUWC-ST-94-4)
  Apply to:
  NUWC Division-Newport
  (ID# )
  Code 083
  1176 Howell Street
  Newport, RI 02841-1708
  (401) 841-3585

**Office of Naval Research**
**Arlington, VA**
- Chief Scientist, Nonlinear Science (ID# 94-10)
- Chief Scientist, Theoretical and Experimental Molecular Biology (ID# 94-11)
  Apply to:
  ONR SHRO Attn: (ID# )
  800 North Quincy Street
  Arlington, VA 22217-5660
  (703) 696-0972

**Naval Command Control and Ocean Surveillance Center**
**San Diego, CA**
- Sr Research Scientist for Ocean Surveillance (ID# 702-09-94)
- Sr Research Scientist for Electron and Microelectronic Devices (ID# 501-08-94)
  Apply to:
  HRO Services Office Attn: (ID# )
  NCCOSC-Code 122
  49330 Electron Dr.-Rm. 104 (Wilson)
  San Diego, CA 92152-5452
  (619) 553-1838

**Naval Research Laboratory**
**Washington, DC and Bay St. Louis, MS**
- Sr Research Scientist for Radar Scattering (ID# 53-ST01)
- Sr Research Scientist for Advanced Computing Concepts (ID# 55-ST02)
- Sr Research Scientist for Quantum Electronics (ID# 56-ST03)
- Sr Research Scientist for Nanotechnology and Photonics (ID# 56-ST04)
- Sr Research Scientist for Microstructures and Self-Assembled Materials (ID# 60-ST05)
- Sr Research Scientist for Polymer Synthesis (ID# 61-ST06)
- Sr Research Scientist for Magnetic Materials (ID# 63-ST07)
- Sr Research Scientist for Planar Magnetism (ID# 63-ST08)
- Sr Research Scientist for Intense Particle Beams & Plasma Processing (ID# 67-ST10)
- Sr Research Scientist for Biosensors and Biomaterials (ID# 69-ST11)
- Sr Research Scientist for Marine Sedimentology and Geosciences (ID# 74-ST12) Bay St. Louis, MS
- Sr Research Scientist for Solar and Plasma Spectroscopy (ID# 76-ST13)
  Apply to:
  NRL HRO Attn: (ID# )
  4555 Overlook Avenue SW
  Washington, DC 20375-5320
  (202) 767-5030

Applicants should be recognized as national/international authorities in their specialty and should have planned and executed difficult programs of national significance or specialized programs that show outstanding attainments in their field of research or consultation. Salaries range from $79,931 to $115,700 (plus locality pay) per year. Resumes or SF-171s must reach offices listed above by 1 August 1994.

*Each position will be filled subject to position allocation availability.

Navy is an Equal Opportunity Employer • US Citizenship Required
POSITIONS OPEN

PROGRAM DIRECTOR—NEURO-ONCOLOGY
Mayo Cancer Center
Medical College of Virginia
Virginia Commonwealth University (VCU)

Candidates at the level of Associate or Full Professor are sought with a strong track record of research and peer-reviewed funding in the Neuro-Oncology program at the Medical College of Virginia's Massey Cancer Center. The Neuro-Oncology program consists of a group of collaborating faculty in clinical and departments who share common interests in brain and spinal biology, radiology, neurosurgery, radiation therapy, and clinical studies, and who are engaged in research in brain and spine biology, radiology, and clinical studies. The successful candidate will have a strong research program in brain and spine biology, radiology, and clinical studies, and will be expected to participate in the Graduate program and other affairs of the designated academic and medical departments. M.D.’s or Ph.D.’s will be considered.

Send curriculum vitae and names of three (3) references to: Dr. Thomas F. Huff, Chair, Neuro-Oncology Search Committee, Medical College of Virginia, Virginia Commonwealth University, Box 980678, Richmond, VA 23298–0678.

VCU is an Equal Opportunity/Affirmative Action Employer.

MANAGER, IMAGE ANALYSIS MICROSCOPY CORE
M.D. with pathology training and extensive experience in immunohistochemistry needed to manage a shared service supporting microscopic infrastructure and provide technical expertise, interpretive and preparative services for users. Must have hands-on experience with laser scanning microscopy, in situ hybridization, preparation of basic molecular biology techniques. Non-tenure eligible faculty appointment at rank commensurate with experience. Address applications with curriculum vitae and three letters of recommendation to: Ms. Barbara Roberts, Administrative Assistant, Department of Biochemistry and Molecular Biology, University of Nebraska, 405 N. 16th Street, Nebraska Science Center, 600 South 42nd Street, Omaha, NE 68198-4525. Application review will begin July 15, 1994, and continue until position is filled. UNMC is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

EXECUTIVE DIRECTOR
NATIONAL ASSOCIATION OF BIOLOGY TEACHERS (NABT)
RESTON, VIRGINIA

The 7,600-member NABT invites applications for the position of full-time executive director, effective 15 May 1995. The executive director will have a sound understanding of biology and K–12 education, skills in communication and organizational management, and knowledge of association services and professional development opportunities. Master’s degree in biological sciences or science education required; Ph.D. preferred. Experience in nonprofit administration will be given priority. Applicants with excellent communication, budgeting and management skills will be considered. Salary is commensurate with experience. Send letter of application, curriculum vitae, and three letters of recommendation by 19 August 1994 to: Joseph D. McNesney, NABT Search Committee, BSCS, 5415 Mark Dabling Boulevard, Colorado Springs, CO 80918–3842.

POSTDOCTORAL POSITION available immediately to study chemistry and biology of DNA damage produced by enediyne anticancer drugs. Qualifications: Ph.D. in chemistry or biology with significant experience in nucleic acid biochemistry and/or molecular/cell biology of DNA damage. Send curriculum vitae, summary of research experience, and names/orders of three references to: Dr. Peter Dedon, Division of Toxicology, 16–336B, MIT, Cambridge, MA 02139. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION open for one year, with possible renewal, for Ph.D. with demonstrated track record of successful research in biological techniques applied to proteins/enzymes to study thiamin enzymes (Biochemistry, 33, 5630–5635, 1994) and pro-sequence aided foldings of basic science (Biochemistry, 33, 562–569, 1994). Send curriculum vitae and names/telephone/e-mail addresses of three references to: Dr. Frank Jordan, Dept. of Chemistry, Tufts University, Medford, MA 02155; FAX: 07102. FAX: 201–648–1264; E-mail: fjrjordan@ andromeda.rutgers.edu. Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

DIRECTOR

The Maryland Sea Grant College seeks a Director to guide a diverse program of marine resource, education, and technology transfer. Responsibilities include maintaining and enhancing the College’s core program, including operations and development of the National Sea Grant College Program. The position is four-year renewable. The College is headquartered at the University of Maryland, College of Agriculture, Natural Resources, and Environment, College Park, MD 20742. The University of Maryland System is an Equal Opportunity Employer and actively seeks nominations and applications from minority and women candidates.

SENIOR POSITION

The Anthropology and Biology Departments at Penn State seek a human paleontologist and comparative anatomist for a joint tenured senior position. The successful candidate should have an internationally prominent record of scholarship in the field; current research in human or primate evolution and comparative anatomy; publications in major refereed journals; and three letters of recommendation to: Dr. Kenneth M. Weiss, Search Committee Chair, Department of Anthropology, 409A Carpenter Building, University Park, PA 16802; Telephone: (814) 865–2509, 865–1474. Email: KMW4@PSUVM.PSU.EDU

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

FACULTY POSITION

Oregon Health Sciences University Department of Anesthesiology
Portland, Oregon

The Department of Anesthesiology at Oregon Health Sciences University is seeking to expand its research program and is inviting applications for a tenure-track faculty position from individuals who have a career focus in research and who will be successful in competitive research funding. The successful candidate will be expected to maintain his/her own research program, develop opportunities for other faculty members to participate in research, and provide a mentorship capability for junior faculty and trainees. Faculty positions will be in the department of anesthesiology, and will be available in the areas of pain medicine, cardiology and anesthesia, pharmacology, and biophysics. Applications from individuals with the following research interests and expertise are encouraged: (1) Basic biophysical mechanisms of the ventilatory response; (2) Biophysical mechanisms of chemoreception; (3) Biophysical mechanisms of pain transmission and perception. Please send letter of application, curriculum vitae, and three letters of recommendation to: Dr. John M. Ferrick, Search Committee Chair, Department of Anesthesiology, Oregon Health Sciences University, 3181 SW Sam Jackson Park Road, Portland, OR 97230. OHSU is an Equal Opportunity and Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study ribosomes and protein synthesis. Current research includes: (1) Biochemical and biophysical characterization of ribosomal protein complexes; (2) rRNA- and tRNA protein interactions involving rRNA and tRNA; (3) topography of ribosome structure using site-directed mutagenesis to study RNA structure; (4) identification of functional and structural RNA interactions involving ribosome RNA and DNA; and (5) identification of functional and structural RNA interactions involving ribosome RNA and DNA. Send curriculum vitae and names of three references to: Edward J. Spitz, Department of Biochemistry, Brown University, 121 Hope Street, Providence, RI 02912. Brown University is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE POSTDOCTORAL POSITION in tumor suppressor genes and the cell cycle. Applications are invited for a postdoctoral position as an associate in molecular biology. The position involves studies of mammalian cell cycle regulation. Studies will incorporate molecular biology, cell biology, and biochemical techniques to address questions regarding the mechanisms that tumor suppressor genes produce, such as the retinoblastoma protein (pRb), regulate the cell cycle and how the cell cycle control machinery, such as cyclins and cyclin-dependent kinases (cdks), regulate tumor suppressor gene products. Qualiﬁed candidates should possess either a Ph.D. and/or M.D. in a relevant ﬁeld. Please forward your curriculum vitae and three letters of recommendation to: Steven F. Dowdy, Ph.D.

Washington University School of Medicine 600 South Euclid, Box 8022 St. Louis, Missouri 63110 Equal Opportunity Employer

POSTDOCTORAL POSITIONS AT UC IRVINE IN THE FIELD OF POTASSIUM CHANNEL STRUCTURE, FUNCTION AND REGULATION

The Channel/Receptor/Transporter group at UC Irvine (including the labs of M. Cahan, K. G. Chandy, J. Gargus, A. Goldin, G. Gutman, J. Hall, D. O'Dowd) has an active, multidisciplinary research program with a major focus on ion channels, and substantial links with the pharmaceutical industry. Applications are invited for five postdoctoral positions:

1. Protein chemist, to pursue the biochemical characterization and purification of K+ channels for direct structural studies.

2. Electrophysiologist, to work on reconstitution and characterization of the biophysical properties of purified K+ channels.

3. Electrophysiologist, to use site-specific mutagenesis along with patch-clamp electrophysiology to delineate the structure of channel pores.

4. Molecular biologist, with an interest in defining the regulatory elements that control K+ channel expression.

5. Cell biologist, to use video-imaging techniques to study cell signaling mechanisms.

Send curriculum vitae and the names of three potential references to: Ms. Mona Wagner, Department of Physiology and Biophysics, University of California, Irvine, CA 92717. UCI is an Equal Opportunity/Affirmative Action Employer and Educator.

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POSTDOCTORAL POSITION to study mechanisms of peptide/dopamine interactions. Research involves in vitro electrophysiological methods, including patch-clamp techniques. Experience in neuroscience research and with computer-assisted analysis of data desired. Send curriculum vitae and three references to: Dr. Arthur S. Freeman, Department of Pharmacology, Texas Tech University Health Sciences Center, 3601 4th Street, Lubbock, TX 79430. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS AVAILABLE

Open new for NMR and fluorescence studies of retail cells and membranes. A recent Ph.D. in biochemistry or biophysics and experience in NMR spectroscopy is required. Opening: August 1, 1994, for biophysical studies of model membranes, lipid-protein interactions and symmetric transformation of membranes, primarily by NMR spectroscopy. Send curriculum vitae and three letters of recommendation to: James A. Hamilton, Ph.D., Department of Biophysics W302, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118. Affirmative Action.

TWO POSTDOCTORAL POSITIONS are available to study the newly discovered Ca2+ signaling pathway mediated by cyclic ADP-ribose. Ongoing research includes characterization of the metabolic enzyme, cADPR, and its role in regulation of the pathway. Experience with molecular biology, enzyme purification and/or microinjection is desirable. Please send curriculum vitae and reference letters to: Dr. Hon-Chung Lee, Department of Physiology, University of Minnesota, 420 Delaware Street SE, Minneapolis, MN 55455. The University of Minnesota is an Equal Opportunity Educator and Employer.


POSTDOCTORAL POSITION, COLLEGE OF AGRICULTURAL SCIENCES, PENN STATE: Postdoctoral Scholar in Root Biology needed September 1, 1994, to study the role of root architecture in the phosphorous acquisition efficiency of root systems. The successful applicant will analyze the P efficiency of common bean (Phaseolus vulgaris) genotypes having contrasting root trait, using a P/P budget approach in greenhouse conditions. Experience with IRGA, plant nutrition, quantitative growth analysis preferred. Apply to: Jonathan Lynch, Horticulture Department, Box SCI, Penn State, University Park, PA 16802, FAX (814) 863-6139, An Equal Opportunity/Affirmative Action Employer. Women and minorities encouraged to apply.

POSTDOCTORAL POSITION: The USDA, Agricultural Research Service, Fargo North Dakota, is seeking a research scientist in chemistry, biochemistry or animal physiology to conduct research on the metabolic fate of dioxins and related compounds in animals. The research will seek to isolate and identify metabolites in mammalian tissues and excreta. The successful candidate is expected to develop a research program that will increase the understanding of biochemical and physiological mechanisms involved in dioxin metabolism and disposition that can be applied to the prevention or elimination of persistent xenobiotics in animals. The required qualifications are a Ph.D. in Chemistry, Biochemistry or Animal Physiology (or background in chemistry). Experience in mammalian metabolic studies (i.e. isolation and characterization of metabolites) or experience in the dioxin field is advantageous. Salary is commensurate with experience ($34,600 to $44,312). For more information or to apply, send a completed SF-171 and current curriculum vitae to: Dr. Gerald Larsen, USDA/ARS Biosciences Research Laboratory, 1605 Albrecht Blvd., Fargo, ND, Telephone: (701) 289-1230. USDA, ARS is an Equal Opportunity Employer.

RPI, a leader in the development of ribozyme-based pharmaceuticals and agricultural products, is currently seeking three Ph.D. level scientists in a new facility in Boulder, CO.

Ph.D. Scientist with 2+ years postdoctoral experience relating to DNA delivery in mammalian systems using adenovirus-based vector technology. Expertise in the design, production and delivery of adenovirus vectors is preferred.

Ph.D. Scientist with 2+ years postdoctoral experience relating to DNA delivery in mammalian systems using adeno-associated virus vector technology. Expertise in the design and analysis of AAV vectors and/or the development of AAV vector production methods is preferred.

Ph.D. Scientist with 2+ years postdoctoral experience relating to RNA in eukaryotic systems. Expertise in RNA structure, RNA stability, RNA trafficking, or intracellular RNA localization is preferred.

We offer a competitive salary and benefits package, including stock option plan. For consideration, please send a Curriculum Vitae including the names of three references to: Ribozyme Pharmaceuticals, Inc., Attn: Dr. Dan T. Stinchcomb, Director of Biology Research, 2950 Wilderness Place, Boulder, CO 80301, or FAX to (303) 449-6995. We are an Equal Opportunity Employer.

Post-Doctoral Position

Embryology
Ruakura Agricultural Research Centre
Hamilton, New Zealand
Vacancy No. 11/94

Applications are invited for a two year post-doctoral fellowship to investigate production of bovine embryos resulting from fertilisation by FACs separated X- and Y-chromosome-bearing sperm. Approaches will include molecular and cell biology together with improvements in in vitro techniques. Applicants will preferably have experience in bovine embryo culture and in vitro production, sperm physiology, have an interest in complex instrumentation, and a willingness to see the sexing technology applied in the field. The successful applicant will join a multi-national research group and will be based with AgResearch's embryology programme in Hamilton, New Zealand.

The fellowship consists of a salary of NZ$38,000 and a contribution to removal expenses. Commencement date is 1 September 1994. Technical and laboratory support will be provided.

Written applications, including CV and the names/addresses of two referees, should be forwarded by Friday 15 July 1994 to:

Carole Bodey, AgResearch Ruakura, Private Bag 3123, Hamilton, New Zealand, phone (64) 7 838-5665, fax (64) 7 838-5658.

AgResearch is an equal employment opportunities employer.
POSTDOCTORAL POSITIONS—Johns Hopkins University. Opportunities are available to study neuronal degeneration. Experience in biochemistry, cell and/or molecular biology required. Please send curriculum vitae and 3 letters of reference to: Dr. Ted M. Dawson, Department of Neurology, JHU, Pathology Bldg., 2-210.600 North Wolfe Street, Baltimore, MD 21287. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
MICROBIAL POPULATION BIOLOGY
A position is available immediately to study the factors that determine genetic exchange rates within and between bacteria. Enzymes involved in genetic exchange in bacteria. Preference will be given to evolutionary biologists who are trained in molecular or microbiological methods. Curriculum vitae, a statement of research interests, and the letters of recommendation should be sent by August 19, 1994, to: Dr. Frederick M. Cohan, Department of Biology, Wesleyan University, Middletown, CT 06459-0170. Wesleyan University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
TO STUDY REGULATION OF GENE EXPRESSION DURING FAT DIFFERENTIATION
The Department of Pathology, Immunology, and Experimental Medicine of the University of California-San Francisco, is currently recruiting at the postdoctoral level. Preference will be given to candidates with a strong background in molecular biology, genetics, or biochemistry. This position is part of a NIH-supported program that focuses on the regulation of gene expression during adipocyte differentiation. Send curriculum vitae and names of references to: Dr. Hielsch, Department of Pathology, Room 6-152, University of California-Berkeley, CA 94720.

POSTDOCTORAL POSITION
AVAILABLE TO STUDY THE BIOGENESIS, MOLECULAR GENETICS, AND STRUCTURE OF HEMOPHILIA INFECTIONS IN PLASMA. Candidates should have a Ph.D. with a strong background in protein biochemistry or molecular biology. Send curriculum vitae and three letters of recommendation to: Dr. Janet Glisardor, Department of Biochemistry and Molecular Biology, University of Michigan Medical School, Ann Arbor, MI 48109. The University of Michigan is an Equal Opportunity/Affirmative Action Employer and encourages women and minorities to apply.

POSTDOCTORAL POSITION
IN NEUROIMMUNOLOGY AVAILABLE SUMMER 1994. NIH-supported position to study molecular and immunological mechanisms of the autoimmune diseases Myasthenia Gravis. Development of molecular therapeutic strategies for specific treatment of these diseases is the main goal. Experience includes induction of energy; "targeting" specific T cells; and new agents for specific therapy of autoimmune diseases. Must have Ph.D. or M.D., knowledge of molecular mechanisms of disease, and experience in laboratory experience. FAX or send letter describing background and interest, curriculum vitae, and three references to: Daniel B. Drachman, Director, Neuromuscular Unit, Johns Hopkins School of Medicine, 600 North Wolfe Street, Baltimore, MD 21287–7519. FAX: 410-956-1961. An Equal Opportunity Employer.

RESEARCH FELLOW
TO STUDY MOLECULAR PATHOLOGY OF CELL DEATH. Ph.D. with strong background in molecular biology and related technologies required. Additional experience in protein chemistry preferred. Send resume and three references to: M. A. Venkatachalam, Department of Pathology, UTHSCSA, 7703 Floyd Curl Drive, San Antonio, TX 78229. UTHSCSA is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP
Position available September 1994 to study the molecular biology of lipid transfer proteins as part of a research group interested in the regulation of plasma membrane lipid composition. Experience should have a Ph.D. in Biochemistry or Molecular Biology, with experience in molecular biology relevant to structure-function analysis of proteins. Knowledge of gene knockout techniques an advantage. Please submit curriculum vitae and names of three references to: Christopher J. Field, Molecular Cellular Biology Research Center, Box 0130, University of California Medical Center, San Francisco, CA 94143. The University of California is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
VISITING FELLOWSHIPS 1996, HUMANITIES RESEARCH CENTRE, THE AUSTRALIAN NATIONAL UNIVERSITY. Applications are invited for Visiting Fellowships in the Humanities Research Centre in 1996. Each year the Centre concentrates upon a special theme. The theme for 1996 is "Beyond the Edge of Science." The Centre intends to organize four conferences: The Tenth David Nicholson Smith Conference on Eighteenth-Century Science; Margins and the Metropoli- tans: Literature, Culture and Science, 1660–1830 (early July); Beyond Colonialism: a seminar on art history and anthropology in honour of Bernard Smith (late July); Relationships of Knowledge and Traditions; Incorporating the Sixth Comparative Scientific Traditions Conference, to be held jointly with Desant University, and at the Caines Campus of James Cook University, and based at the Cairns Campus of James Cook University in late August/early September. Applications should be received by 31 October 1994. The Centre will be opened to students with short-term or long-term interests in the humanities. Applications should be sent to: The Centre, Humanities Research Centre, The Australian National University, Canberra ACT 0200, Australia. FAX: 61 6 354 5715, or send to: The Centre, Humanities Research Centre, The Australian National University, Canberra ACT 0200, Australia. FAX: 61 6 354 5715. The University of California-Berkeley is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE
A position is available in the Department of Pathology and Laboratory Medicine to examine the relationships between B-cell selection and lymphoma, in particular, this position is in a molecular immunology laboratory on the University of Pennsylvania campus in Phila- delphia, PA. Experience with diversified techniques in molecular biology, protein chemistry and general tissue culture desirable. Send curriculum vitae, and three letters of recommendation, to: Dr. J. Y. Chiang, Department of Pathology and Laboratory Medicine, 3400 Spruce Street, Philadelphia, PA 19104–4283. Telephone: 215–662–3427. FAX: 215–662–6891. An Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE
ASSOCIATE POSITION available in the Department of Biochemistry and Molecular Pathology to study molecular mechanisms of organogenesis and development in relation to the in vitro production of differentiated cells in the laboratory. Experience in cell and tissue culture and experience with mouse models is desirable. Send curriculum vitae and three letters of recommendation to: Dr. J. Y. Chiang, Department of Pathology and Laboratory Medicine, 3400 Spruce Street, Philadelphia, PA 19104–4283. Telephone: 215–662–3427. FAX: 215–662–6891. An Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITIONS
IN NEUROMUSCULAR DISORDERS
The National Institute of Neurological Disorders and Stroke, Bethesda, Maryland, has an immediate opening for a postdoctoral research associate to work in the laboratory of Dr. Dan Geschwind. The research involves studies on congenital muscular dystrophies. Send curriculum vitae and names of three references to: Dr. Dan Geschwind, National Institute of Neurological Disorders and Stroke, Bethesda, Maryland 20892. An Equal Opportunity Employer.

POSTDOCTORAL POSITION
IN MOLECULAR TUMOR ViroLOGY
THE UNIVERSITY OF COLORADO.
Postdoctoral research positions are available in a number of interactive laboratories studying various aspects of the molecular biology of human tumor viruses. The participants in the laboratories include the following areas: animal models of papillomavirus pathogenesis (Janet Brandes), signal transduction by papillomavirus onca- genes and growth inhibitory genes (Daniel Dimaio), regulation of reverse transcription and genome rearrangement (Nancy Maizels), Epstein-Barr Virus latency, replication, and recombinant (I. George Miller), and molecular and cellular biology of tumors. Applications are encouraged to submit curriculum vitae and the names of three references to a single listing package for the position. Interested applicants are encouraged to contact Dr. J. Zolnierkowski, Department of Genetics, 333 Cedar Street, SHM 1-145, New Haven, CT 06510. Yale University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW
POSITION AVAILABLE TO STUDY CELL BODY DEGENERATION IN THE RETINA. Including disease models of retinal degeneration, the candidate should have a Ph.D. in cell biology/molcular biology and background in vision research. Please send curriculum vitae, statement of research interests, and two letters of recommendation to: M. H. Milam, Department of Ophthalmology, University of Washington, 3295 19th Avenue, Seattle, WA 98195. Females and minorities are encouraged to apply. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE
POSITION AVAILABLE FOR A 1-year duration with possible extension. The candidate should have a Ph.D. in Cell Biology or Molecular Biology and background in vision research. Applications are encouraged to submit curriculum vitae, statement of research interests, and two letters of recommendation to: Dr. George Bailey, Marine/Freshwater Biomedical Center, Wiegand Hall, Oregon State University, Corvallis, OR 97331. OUSU is an Affirmative Action/Equal Employment Opportunity Employer and is responsive to dual-career needs.

RESEARCH SCIENTIST POSITION
MOLECULAR GENETICS OF HYPERTENSION
The University of Iowa Cardiovascular Center and the Program in Gene Therapy and Molecular Cardiology seeks a Research Scientist to apply embryonic stem cell technology to the study of cardiovascular disease. The successful candidate is expected to interact with members of the Cardiovascular Center on all aspects of Gene Knockout and Gene Replacement. Likely interactions include Gene Therapeutics, Models of Cardiovascular Disease, Val C. Sheffield, M.D., Ph.D. & Allyn L. Mark, M.D. (Molecular Genetics of Hypertension), and John A. Wolfe, M.D. (Gene Therapy in the Cardiovascular System), Roger A. Williamson, M.D. (ES Cell Models), and Kevin P. Campbell, Ph.D. (Molecular Biology of Muscular Dys- trophy). A Ph.D. and at least 2 years of relevant postdoctoral experience is required. Previous experience using embryonic stem cell technologies is desired. The app- pointment will be in the Department of Internal Medi- cine, and the successful candidate will work in the Transgenic Animal Core Facility. The University is Iowa is an Affirmative Action/Equal Employment Opportunity Employer. Women and minorities are encouraged to apply. Applicants should submit a cover letter indicating #32157, curriculum vitae, a description of their previous experience with using embryonic stem cells, and names and addresses of three references to: Michele Pugh, Human Resources, Internal Medicine, SE 320 GH, 200 Hawkins Dr., Iowa City, IA 52242.

ASSISTANT MARINE RESEARCH SCIENTIST
Ph.D. in an environmental science required, preferably systems ecology, biology or chemistry. Experience in field research in marine or aquatic environments required, expertise in invertebrate studies preferred. Familiarity with sampling procedures for N, P, Si, C, as well as sampling procedures for primary productivity, including C-14, oxygen, carbon dioxide by bottle incubation, and water column measurements. Experience with knowledge of microcomputers, software for statistical analyses, and software for modeling. Skills in data analyses, programing, and statistical interpretation preferred. Demonstrated ability to manage professional personnel and students preferred. Must have strong verbal and written communication skills. Must be able to work on emergency call nights and weekends, and to endure adverse environmental conditions, including difficult field conditions at sea, exposure to hazardous waste sites, and exposure to noxious fumes. Funding is limited to 27 May 1995 with extension contingent on funding. Submit a letter of application and résumé by 8 August 1994 to: Dr. D. A. Duarte, Coordinator (Log. # 559453), University of Rhode Island, P.O. Box G, Kingston, RI 02881. The University of Rhode Island is an Affirmative Action/Equal Employment Opportunity em- ployer and is committed to increasing the diversity of its faculty, staff and students. People from under-represented groups are encouraged to apply.

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SCIENCE • VOL. 265 • 1 JULY 1994
ASSOCIATE DIRECTOR
RADIATION RESEARCH PROGRAM (RRP)
DIVISION OF CANCER TREATMENT (DCT)
NATIONAL INSTITUTE OF HEALTH,
NATIONAL CANCER INSTITUTE (NCI)

Location: Rockville, Maryland

As Associate Director of the Radiation Research Program (RRP), the incumbent has overall responsibility for the planning, evaluation, and coordination of broad national and international radiation research programs designed to determine the effectiveness of radiation in cancer treatment, its usefulness in the diagnosis of cancer and other diseases, and the biological effects of exposures to low doses of ionizing and nonionizing radiations. Directs and manages extramural radiation research supported by the NCI's Division of Cancer Treatment (DCT). Coordinates, reviews and implements the fiscal management of RRP's budget which includes grants (Research Project Grants - R01, Program Project Grants - P01, Conference Grants - R13), research and resource contracts, and cooperative agreements which has an approximate operating budget of $110 million. RRP presently has a staff of 12 full time employees which includes support as well as scientific personnel.

SALARY: Ranges from $71,049 to 91,029 per annum. Physicians may be eligible for an added allowance up to $20,000 per annum.

BENEFITS: Health and life insurance options, retirement, paid holidays, vacation and sick leave.

Applicants must meet the minimum educational requirements for Medical Officer, GS-602. In addition, applicants must possess a minimally satisfactory level of competence in the knowledges, skills, and/or abilities listed below to meet minimal qualifications for the position.

1. Ability to direct, lead and manage preclinical/clinical research programs as they relate to cancer in one or more radiation specialities, e.g. radiotherapy, diagnostic imaging, nuclear medicine, radiation biology, physics.

2. Ability to plan, develop and implement research projects and programs including the formulation of program objectives and goals.

3. Ability to obtain and allocate the financial and material resources necessary to support program/policy implementation, and the ability to recruit, manage, and motivate personnel necessary to support the program.

4. Ability to establish and maintain effective collaborative relationships with other key scientists and groups within the U.S. and abroad having similar or related research interests.

For further qualification requirements, application procedures, and other additional information, please contact Ms. Suzanne Ryan, Personnel Management Specialist, NCI at (301) 496-8657.

Applications for Federal Employment (SF-171), are to be sent to the above individual at: The National Cancer Institute, Personnel Management Branch, 6120 Executive Boulevard, Executive Plaza South, Room 531, Rockville, Maryland 20852. A current curriculum vitae and bibliography must accompany all applications for this position. However, interested Public Health Service Commissioned officers currently within the Commissioned Corps may submit a resume in lieu of a SF-171.

Applications must be postmarked no later than the announcement closing date of August 9, 1994. To be considered, applicants must be U.S. citizens.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER
The Division of Cancer Prevention and Control (DCPC), NCI, is accepting applications for the Cancer Prevention Fellowship Program (CPFP). The purpose of this program is to train individuals from a multiplicity of health science disciplines in the field of cancer prevention and control. The program provides for: Master of Public Health training (at accredited university programs); Participation in the DCPC Cancer Prevention and Control Academic Summer Course (open to all physicians and scientists interested in learning the principles and practice of cancer prevention and control); Working at DCPC directly with individual preceptors on cancer prevention and control projects; Brief field assignments in cancer prevention and control programs at other institutions. Funding permitting, as many as ten Fellows will be accepted for up to three years of training, beginning July 1, 1995. Benefits include selected relocation and travel expenses, paid federal holidays, and participation health insurance.

Eligibility

M.D., D.D.S., or D.O. from a U.S., territorial, or Canadian Medical School. Foreign medical graduates must have current ECFMG/UEMGEM or USMLE certification and appropriate experience, e.g., one year residency in a training program approved by the Accreditation Council for Graduate Medical Education.

Or

Ph.D., Dr.P.H. or other doctoral degree in a related discipline (epidemiology, biostatistics, and the biomedical, nutritional, public health or behavioral sciences). Foreign education must be comparable to that received in accredited U.S., territorial, or Canadian institutions.

Plus

U.S. citizenship or resident alien eligible for citizenship within four years.

For details and an application catalog either call, fax or send a postcard or letter with your name and home address to:

Douglas L. Weed, M.D., M.P.H., Ph.D.
Director
Cancer Prevention Fellowship Program
Division of Cancer Prevention and Control
National Cancer Institute
Executive Plaza South, T-41
Bethesda, MD 20892

Further Inquiries: Mrs. Barbara Redding
TELEPHONE(301) 496-8640
FAX(301) 402-4883

Deadline for receipt of applications: September 1, 1994

NIH is an Equal Opportunity Employer

MRI POSTDOCTORAL FELLOWSHIP

SmithKline Beecham, a worldwide leader in pharmaceutical research, has an opportunity for a postdoctoral fellowship to join our state-of-the-art MRI facility. The selected individual will work in the area of development of NMR Imaging, micro-imaging and Spectroscopic techniques and its application to drug discovery research. Our recently built MRI facility has well-equipped image analysis and electronics laboratories, as well as a dedicated pre-clinical preparation laboratory. The instrumentation includes a 4.7 T/40 cm Bruker/ABX system and a 3.4 T/8.9 cm Bruker/AMX system with micro-imaging accessories. The image analysis laboratory consists of a series of UNIX/Sparc workstations.

The successful candidate will have a Ph.D. in Physics, Chemistry, Biochemistry, Bio-medical or Electrical Engineering and a sound knowledge of NMR theory and techniques. Strong background in RF coil and pulse sequence design and development is a plus.

SmithKline Beecham offers a competitive compensation and benefits package and a stimulating team environment. Qualified candidates, please forward resume and salary history to:
SmithKline Beecham Pharmaceuticals, #H0192, P.O. Box 799, Conshohocken, PA 19428. We are an Equal Opportunity Employer, M/F/D/V.

SmithKline Beecham Pharmaceuticals
Challenging the natural limits.

SCIENTIST

~Protein Biochemistry~

Arris Pharmaceutical, a growing biopharmaceutical company, is dedicated to the rapid development of novel human therapeutics. A hallmark of Arris' drug design approach is the integration of biological sciences with medicinal and computational chemistry as well as artificial intelligence. We are currently seeking a skilled protein biochemist for our Oral Cytokines group.

As a member of a team working closely with X-ray crystallographers and molecular biologists in structure/function studies, you will purify and characterize rDNA-expressed receptor proteins from a variety of different sources, including eukaryotic cells, yeast and E. coli. The successful candidate will have 0-2 years' relevant postdoctoral experience in biochemistry. Experience in protein purification using standard chromatographic techniques, FPLC and HPLC, along with skills in SDS-PAGE, ELISA, and immunoblotting are also required. Knowledge of cell culture is a plus.

We offer an attractive salary, a generous benefits package, the potential for career advancement, and the rare opportunity to make significant scientific contributions. Please send resume and cover letter to: Arris Pharmaceutical Corp., Human Resources Department, Attn: Job# OC/CX-5, 385 Oyster Point Blvd., Suite 3, South San Francisco, CA 94080. An Equal Opportunity Employer.
ASSOCIATE DIRECTOR
DEVELOPMENTAL THERAPEUTICS PROGRAM (DTP)
DIVISION OF CANCER TREATMENT (DCT)
NATIONAL CANCER INSTITUTE,
NATIONAL INSTITUTES OF HEALTH (NIH)
PUBLIC HEALTH SERVICE (PHS)

The NCI is accepting applications for the position of Associate Director, DTP, located in Rockville, Maryland. We are seeking scientists experienced in biology, microbiology, pharmacology, chemistry, or medicine, who have demonstrated the ability to manage the planning, direction and implementation of a broad national and international program of drug discovery and development. The DTP is designed specifically to maintain a continuous flow of therapeutic agents and materials from laboratory clinics for the treatment of cancer and AIDS. The DTP is composed of three distinct segments with an annual funding level of approximately $134 million. The segments consist of a large extramural contact-based drug-development program (approximately $40 million), a grant-supported Biochemistry and Pharmacology program (approximately $77 million), and an intramural, laboratory oriented research program (approximately $17 million) exclusive of salaries and related fringe benefits. The DTP staff consists of approximately 225 scientific and supporting personnel.

SALARY: Ranges from $69,427 to 91,029 per annum. Physicians may be eligible for an added allowance up to $20,000 per annum.

BENEFITS: Health and life insurance options, retirement, paid holidays, vacation and sick leave.

Applicants must possess a minimally satisfactory level of competence in the knowledges, skills, and/or abilities below to meet minimal qualifications for the position.

1. Ability to manage laboratory or clinical research programs as they relate to cancer in one or more of the following biomedical sciences: medical oncology, chemistry, biology, biochemistry, internal medicine, pharmacology.

2. Ability to direct and guide programs and projects, including long and short-term goals and priorities, and the structure necessary to carry them out.

3. Ability to obtain and allocate the financial and material resources necessary to support program or policy implementation.

4. Ability to establish and maintain effective collaborative relationships with other key scientists and groups within the U.S. and abroad having similar or related research interests.

For further qualification requirements, application procedures, and other additional information, please contact Ms. Suzanne Ryan, Personnel Management Specialist, NCI at (301) 496-8657.

Applications for Federal Employment (SF-171), are to be sent to the above individual at: The National Cancer Institute, Personnel Management Branch, 6120 Executive Boulevard, Executive Plaza South, Room 531, Rockville, Maryland 20852. A current curriculum vitae and bibliography must accompany all applications for this position. However, interested Public Health Service Commissioned officers currently within the Commissioned Corps may submit a resume in lieu of a SF-171.

Applications must be postmarked no later than the announcement closing date of August 8, 1994. To be considered, applicants must be U.S. citizens.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER
CLINICAL RESEARCH UNIT

A new Clinical Research Unit will start operating in Heidelberg during the last quarter of 1994 (Head: Dr. Carlo Gambaccorti). This represents a unique opportunity to work in a CRU/CRC environment in Europe. The initial focus will be on the development of new and innovative cancer treatment modalities.

The main aim of this unit will be to maximize the interaction between preclinical and clinical studies. This Unit will be located within the University Hospital in Heidelberg, and will represent a Division of the Deutsches Krebsforschungszentrum (DKFZ).

We are presently looking for qualified candidates to fill the following positions:

**Group Leader for Laboratory Activity:** qualifications include PhD/MD, outstanding research record with previous experience in cellular immunology/molecular biology and proven ability to independently run research projects and to manage a research lab: this position is 100 % lab based; initial two year appointment, with possibility for tenure;

**Group Leader for Clinical Affairs:** qualifications include MD, broad certification in Oncology/Hematology, eligibility to practice medicine in Germany, prominent research record; this is a tenure-track position with an initial two year appointment;

**Research Nurse Coordinator:** qualifications include RN level, previous experience in a CRU, and willingness to function as a role model for the nursing personnel: initial two year appointment;

**Post Doctoral Fellows:** qualifications include MD and at least two years of post MD clinical training (with at least one year of Onc/Hem training), eligibility to practice medicine in Germany, strong interest in working in combined laboratory/clinical projects. This is a three year training program combining two years of lab research with one year of clinical activity;

Competitive salaries and relocation assistance are available. Initial knowledge of German is desirable but not essential.

Interest applicants can send their complete CV including three letters of recommendation or the names of three referees to: DKFZ - Personnel Department, Im Neuenheimer Feld 280, D-69120 Heidelberg, Germany

EXPLORATION OF THE UNIVERSE

**a challenge for Europe and its best scientists**

The European Southern Observatory (ESO) is an intergovernmental organisation responsible for the most advanced astronomical research in the southern hemisphere. The eight Member States of the ESO are Belgium, Denmark, France, Germany, Italy, the Netherlands, Sweden and Switzerland.

As the prime European astronomical centre, ESO occupies a leading position in the world's scientific community. Its research work is of great value to many areas of science and industry. The Very Large Telescope (VLT) is a 480 MDM programme expected to be completed by the year 2000. It consists of four 8-metre telescopes to be built by European industry and installed in Chile. ESO is responsible for the conceptual design, engineering design and construction of some essential parts, as well as for the overall programme management.

This is an exceptional opportunity for those seeking creative involvement in an international scientific environment, as ESO urgently requires the skills of a (n)

**SENIOR ASTRONOMER/PHYSICIST**

Head of the Instrumentation Division (Ref.: EID 001)
at the ESO Headquarters in Garching near Munich

**Profile:** applicants should have a PhD in Astronomy or Physics and 10 or more years of experience in the design and use of astronomical instrumentation.

The ideal candidate should have a distinguished record of astronomical research and be an active astronomer; his qualifications should be roughly those of a full professor at a major university.

**Responsibilities:** the Head of the Instrumentation Division will report directly to the Director General of ESO. This newly formed division groups together all activities pertaining to instrumentation. It consists of several groups developing infrared instruments and detectors, optical instruments and detectors, and CCD cameras. In addition, it includes project support activities like optical design, electronics hardware and software and a small mechanical workshop.

The staff complement of the division is approximately 35, of which currently 6 are astronomers. It is foreseen that during the 1994-1995 period 4 more astronomers will be recruited.

The successful candidate will be responsible for: (a) the development, testing and installation of the field of VLT instruments for both in-house projects and those involving collaborations with consortia of external institutes; (b) the support in the maintenance and upgrading of the instrumentation of the La Silla Observatory and in the design and procurement of new instruments; (c) conducting a future advanced instrumentation programme by design studies, preparation and authorisation of proposals, and by the development and testing of critical components and detectors. In addition to providing leadership in these tasks, the Head of the Instrumentation Division will contribute to the development of policies for ESO as a whole. Frequent travelling to the observatory sites in Chile (at least twice a year) are to be expected.

**Remuneration** for this post will be commensurate with background, experience and family status. It will be compatible with the salaries paid by intergovernmental organisations.

Although preference will be given to nationals of ESO Member States, this should not discourage suitably qualified applicants from other countries from applying. Positions are open to suitably qualified women and men. It is essential that all candidates have an excellent command of English.

Applications with a brief cv., (no supporting documentation unless requested) should specify the job reference and be submitted before July 27, 1994 to: Personnel Administration and General Services, European Southern Observatory, Karl-Schwarzschild-Straße 2, D-85748 Garching near Munich, Germany. Tel: (89)320.06.418 or (89)320.06.219.

EUROPEAN SOUTHERN OBSERVATORY
Two professional positions are available in the Bioinformatics Program. One, with a project funded through the Genome Initiative, is developing and expanding the mammalian genotype and phenotype database, including the Mouse Genome Database. The other is initiating the development of a new mammalian Gene Expression Resource. These positions entail literature searching, acquiring and analyzing data to be incorporated into the database, interacting with labs that contribute data, and helping database users. The successful applicants will be primarily responsible for data acquisition and database maintenance, but will also participate in determining database contents and display methods with other members of the Mouse Genome Informatics project. Applicants must be versed in developmental biology/physiology or in genetics/molecular biology. Other desirable attributes include writing/communication skills and experience using computers. MS degree in Life Sciences required.

The Jackson Laboratory, located on the coast of Maine on the fringe of Acadia National Park, is a world renowned center and resource for mammalian biology and genetics.

Please contact: The Jackson Laboratory
Attn: Harold R. Wheeler, Employment Manager
600 Main Street, Bar Harbor, ME 04609
207/288-3371
An Affirmative Action/Equal Opportunity Employer

The Jackson Laboratory

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY
Department of Chemistry

FACULTY POSITIONS

The Hong Kong University of Science and Technology, with the mandate to become one of the eminent technological research universities in the world, was opened in October 1991, with programmes at both undergraduate and postgraduate levels. The medium of instruction is English. The Department of Chemistry invites applications for the following positions in all areas of chemistry: Professor: min. US$107,700 p.a.; Reader: US$78,400 - US$104,100 p.a.; Senior Lecturer: US$75,100 - US$100,900 p.a.; Lecturer: US$48,400 - US$80,800 p.a. The research thrust of the Chemistry Department includes: 1) Novel Analytical Techniques (NAT); 2) Laser Spectroscopy and Applications (LSA); 3) Advanced Materials/Polymers (AMP); and 4) Drug Discovery, Design and Synthesis (DDS). Applications are particularly invited for Professor/Reader positions with expertise in Chemical/Biomolecular Sensors. Applications in response to earlier advertisements will automatically be reviewed and such candidates need not re-apply. Generous fringe benefits including medical and dental benefits, annual leave, and children's education allowances are provided. Air passages and housing are also provided where applicable. Initial appointments will generally be on a three-year contract; a gratuity of an amount equal to 25% of the basic salary clause for a term of five years has been made to a successful completion of contract. Re-appointment after the initial contract will be subject to mutual agreement. Approved sabbatical leave will be at full salary. Applications should be sent with a C.V., together with names and addresses of three referees to Professor Nai-Teng Yu (for NAT and LSA), Professor H. Hirao (for AMP), or Dr. Richard Haynes (for DDS), Department of Chemistry, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong (Fax: 852-358-1594) by October 15, 1994, but the search will continue until suitable appointments are made.

INTERNATIONAL POTATO CENTER (CIP) seeks
DIRECTOR OF GENETIC RESOURCES

The International Potato Center (CIP), a non-profit scientific institution dedicated to the greater use of potato and other tuber and root crops in the developing world, seeks a highly qualified individual for the position of Director of Genetic Resources to be based in Lima. CIP is supported by the Consultative Group of International Agricultural Research (CGIAR).

The Position: A Director level position with overall leadership of CIP's work on genetic conservation, enhancement, and breeding of potato, sweetpotato, and several regionally important Andean root and tuber crops. The incumbent will lead a global effort to maintain biodiversity whilst stimulating development of advanced materials, including potential varieties, for use in developing countries of Asia, Africa and Latin America. To increase crop productivity whilst decreasing dependence on pesticides, strong emphasis will be placed on improving characters such as resistances to the major fungal, bacterial and viral diseases, and to insect and nematode pests. Developing tolerances to abiotic stresses such as heat, cold, and drought and improving processing potential and storability will also be key issues. The work involves a pragmatic blend of conventional and biotechnological approaches, and will provide strategic direction to the commodity improvement activities of CIP.

An important aspect of the work is to ensure that impact on low-income farmers and consumers is the major driving force behind the work and that there is appropriate follow-up to measure the practical impact being achieved in terms of increasing productivity and lowering of monetary and environmental costs.

The incumbent will lead a team of genetic resources specialists and breeders at CIP's headquarters in Lima as well as breeders based in Africa and Asia. The incumbent will report to the Deputy Director General for Research. The work involves close collaboration with national agricultural research systems and the private sector in developing and industrialized nations. The position involves strong interactions with CIP's Program Leaders, Regional Representatives and scientists in a broad range of disciplines.

Benefits: Internationally competitive package including pension, health insurance, children's education, housing allowances and home leave.

Applications: Interested candidates should send a detailed resume to Director General, International Potato Center (CIP), Apartado 1558, Lima, Peru. Fax: 51-14-351570.

Closing date for application: August 15, 1994.
CIP strives for staff diversity in gender and nationality.
**Director of Rapid Diagnostic Test Development**

Our client is a publicly owned human healthcare company developing novel therapeutic and diagnostic products. It is a fully integrated business with the capability to bring a product from research concept to the marketplace. It operates worldwide with a particular focus on the Asia Pacific, USA and European markets.

As part of a continuing strategy to develop rapid testing devices for multiple analytes, this progressive organisation has created a new division of rapid diagnostics and wishes to appoint an ambitious, innovative individual as Director. An early challenge will be to recruit and motivate a team of scientists.

Reporting to the President, the Director will be expected to provide an extensive pipeline of novel, rapid diagnostic products for a variety of biological agents. Knowledge of immunodetection techniques, membrane technology, reagent development and device engineering is essential. Experience with non-enzymatic detection and colloidal gold systems would be an asset.

The successful candidate must have a balance of scientific and managerial skills with a demonstrable ability to communicate and influence effectively. The appointment offers substantial negotiable remuneration, including relocation assistance to either the USA or Singapore dependent on the eventual base.

Please reply in confidence, quoting ref: A61E32, and giving concise career, personal and salary details to: Dr. Susan Gammon at MSL International Limited, 32 Aybrook Street, London W1M 3JL.

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**Mark Your Calendar for 23 September:**

SCIENCE's Annual Careers Issue

On 23 September 1994 Science will present its annual Careers issue. Here's your chance to place your advertisement in one of the most important and popular issues of the year. Last year's Careers issue highlighted over 65 pages of career opportunities for scientists at all levels. The 1994 issue will once again rank as one of the top scientific career planning resources. You can be sure scientists at all levels will use the Careers issue to survey the job market and plan future career moves.

When you advertise in the 23 September issue you will receive:

- **Bonus Distribution**
  Copies of the 23 September issue will be distributed to over 2,000 attendees at each of the Biotechnology/Pharmaceutical Job Fairs in La Jolla, CA on September 23-24, and in Cambridge, MA on September 30-October 1.

- **Advertisers' Index**
  Full page advertisers will be listed separately on an index affixed to the covers of the issues distributed at the job fairs.

- **Harvey Readership Study**
  Full page advertisers will benefit from a Harvey Readership Study - a terrific way to find out what Science readers are thinking about your advertising message.

**Advertising Deadline: 6 September**

To advertise call Janis Crowley at (212) 496-7704 or fax to (202) 682-0816.

In Europe call (44) 0223 302067 or fax to (44) 0223 302068
ASSISTANT RESEARCH MOLECULAR BIOLOGIST

Amgen's research environment emphasizes collaboration, intellectual honesty, scientific integrity, and a supportive culture. As a global biotechnology leader, we offer opportunities for dedicated Research Associates.

MOLECULAR NEUROBIOLOGY

You will study the expression of novel neural-activity induced genes and investigate their functions in mammalian central neurons using in vivo models and cell culture systems.

The first position requires experience with in situ hybridization and immunohistochemistry. (Job Code: OA-SC-LT-001)

The second position requires experience in neuronal cell culture and/or embryonic stem cell technology. (Job Code: OA-SC-LT-002)

Both positions require a BS/MS plus 2 or more years' neurobiology lab experience. Knowledge of molecular biology is also essential. Familiarity with neuroanatomy or developmental biology is desired.

Amgen offers a highly competitive compensation and benefits package that includes a retirement and savings plan, an on-site fitness center, and three weeks' vacation. Please fax/mail your resume, cv. to: FAX: (805) 447-1985, Amgen Inc., Staffing, Job Code (see above), Amgen Center, Thousand Oaks, CA 91320-1789. For additional information regarding Amgen's recruitment process, please call (805) 447-4150. Principals only, please. EEO-Affirmative Action Employer M/F/D/V. We recognize that diverse perspectives are a key factor in the process of discovery.

FERMENTATION MICROBIOLOGISTS
ORGANIC CHEMISTS
MOLECULAR MICROBIOLOGISTS

Microcide Pharmaceuticals, Inc., a young and innovative San Francisco Bay Area biopharmaceutical company focused on discovery and development of novel antimicrobial agents for the treatment of human bacterial infectious diseases, is seeking highly motivated individuals to join its growing multidisciplinary scientific teams (chemists, biologists and pharmacologists). The successful candidate must have the ability to work independently and as part of a multidisciplinary team and have excellent communication skills.

Openings exist for Senior Fermentation Microbiologist. Ph.D. or equivalent experience to set up a microbial fermentation laboratory, conduct and oversee fermentation and strain improvement, prepare fermentation extracts for screening and maintain the culture collection. Fermentation Microbiologist. BS or MS, with minimum of 2 years experience in bacterial fermentation techniques and interest in strain and medium improvement.

Natural Products Chemists. Ph.D. in organic chemistry with a minimum of 5 years experience in natural products isolation and structural elucidation; experience as a mass spectroscopist a plus. Synthetic Organic Chemists. BA/BS or MS in organic chemistry, with minimum of 1 year experience in synthetic chemistry (discovery and/or process). Molecular Microbiologists/Molecular Geneticists. Ph.D. with minimum of 5 years research experience in molecular biology, microbiology or genetics. Associate Microbiologists/Molecular Geneticists. BA/BS or MS with minimum of 2 years research experience in molecular biology, microbiology or genetics.

There are exciting opportunities for accomplished scientists with initiative, flexibility and energy to contribute to a rapidly growing organization. We offer competitive salaries, excellent benefits and equity participation. Please send or fax your resume to:

MICROCID PHARMACEUTICALS, INC

Attn.: Human Resources
850 Maude Avenue
Mountain View, CA 94043
fax 415/428-3550.

An equal opportunity employer...
Announcing the 2nd Annual BS/MS Careers Issue

"Last year we advertised in the SCIENCE BS/MS issue. Our presence in that issue really increased our visibility on college campuses."  Donna Kleinschmidt
University Relations Manager, Hoffman-LaRoche

Get B.S. and M.S. students excited about your career opportunities or graduate programs.
SCIENCE offers you a once a year opportunity to reach the best and brightest science students and tell them about your career opportunities or graduate programs in the 26 August 1994 issue. You’ll reach over 159,000 regular subscribers as well as get special bonus distribution to science students at the top 70 colleges and universities* around the U.S. when your ad is seen in the special reprint of the B.S./M.S. advertising section. Plus, the reprint will also be distributed to attendees at 9 college career fairs!

Placing your ad is easy!
The SCIENCE recruitment advertising staff makes your advertising placement easy! Call Janis Crowley at (212) 496-7704, or fax (202) 682-0816 for more information. In Europe call (44) 0223 302067, or fax to (44) 0223 302068.

*The nation's top schools for Biological Sciences, various Chemistry disciplines and Clinical Medicine ranked by the Institute for Scientific Information's Science Watch, as well as the top 20 schools from U.S. News and World Report's annual America's Best Colleges issue.
**THE LIPOSOME COMPANY**

The Liposome Company, a rapidly growing leader in the field of lipid-based drug delivery systems, has the following immediate opportunity available:

**SCIENTIST/ SR. SCIENTIST**

We are seeking candidates with a background in cell biology and/or molecular immunology. Responsibilities include characterization of novel signaling proteins, development of novel gene transfection methodologies, and identification of mechanisms regulating programmed cell death. Candidates should have a PhD in Cell Biology, Immunology or Biochemistry and post-doctoral training. Experience in receptor mediated cellular responses including protein phosphorylation/dephosphorylation, ion flux, mRNA expression or lipid second messengers is a plus.

In addition to a creative environment, we offer a competitive salary and comprehensive benefits. Interested candidates, please send resume and salary history to: Department DE/GB, The Liposome Company, One Research Way, Princeton, NJ 08540.

As an Equal Opportunity Employer.

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**DEAN, COLLEGE OF AGRICULTURE AND LIFE SCIENCES**

Cornell University is seeking applications or nominations for Dean of the New York State College of Agriculture and Life Sciences at Cornell University.

The College of Agriculture and Life Sciences enrolls 3,000 undergraduates and 1,100 graduate students in a broad range of programs centered in 26 departments or sections of its campus in Ithaca or at the New York Agricultural Experiment Station in Geneva, New York. The college has 425 faculty and a total of 1,500 staff. The college budget is nearly $170,000,000 including grants and contracts. The college is responsible for a broad range of undergraduate and graduate programs in the biological, social, and agricultural sciences. The Divisions of Biological Sciences and Nutritional Sciences are administered by the college jointly with other Cornell colleges. Along with the College of Human Ecology, the college has responsibility for Cooperative Extension programs throughout New York State. The college is involved in a substantial array of international programs.

We are seeking a dean who is a distinguished scholar and teacher with outstanding leadership qualities and proven administrative ability. Successful candidates should have demonstrated commitment and experience in enhancing diversity of faculty, staff, and students. The dean should be able to provide academic and administrative leadership to the faculty and students of the college and deal effectively with a wide range of external constituencies of the college. The dean serves as the principal spokesperson to the college’s internal and external audiences. These external constituencies include the State University of New York, national and state government agencies, and organizations representing the diverse interests of the college.

We are particularly interested in having nominations and applications from women and members of other groups historically underrepresented on college faculties. Nominations, applications, and inquiries should be directed to: Provost Maiden C. Nesheim, Chair, Search Committee for Dean of the College of Agriculture and Life Sciences, 300 Day Hall, Cornell University, Ithaca, New York 14853-2801; tel (607) 255-2364; fax (607) 255-9412. All applications and nominations will be treated in a strictly confidential manner and should arrive in Ithaca by September 1, 1994.

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**Gravitational Biology Facility Project**

Martin Marietta Services, Inc., in support of the NASA Ames Research Center in Mt. View, CA, has two positions available for the design of specimen habitats for the Gravitational Biology Facility Project. These positions will be responsible for defining, recommending, monitoring and/or conducting science requirements definition studies associated with the development of life sciences space flight hardware. Ph.D. with 5 years of life sciences laboratory experience desired; excellent interpersonal, writing and presentation skills and the ability to work in team and autonomous environments required.

**Microbiologist**

Focus on supporting habitats with microbiological applications such as small bioreactors, aquaria, and plant fluid delivery systems. Knowledge of mammalian cell/tissue culture desired.

**Fresh Water Biologist**

Focus on microbiological water quality management and assist in the definition of science requirements related to specimen well-being within an environmentally closed aquatic system. Extensive knowledge of the metabolic needs of Zebrafish and Medaka is highly desired.

Applicants should forward resume indicating desired position and salary requirements to: Martin Marietta Services, Inc., PO Box 138, Moffett Field, CA 94035. Equal Opportunity Employer.
POSITIONS OPEN

POSTDOCTORAL RESEARCH POSITION IN CLINICAL AND EXPERIMENTAL TOXICOLOGY: Two-year opportunity to study drug metabolism and toxicity in rodent models and man. This position offers experience in analytical chemistry and spectroscopy, behavioral, pharmacokinetics and pharmacodynamics with emphasis in drugs of abuse. This research facility is affiliated with an ICoC- and CAP-accredited drug and alcohol abuse research program. Applicants are expected to join the team for the design, development and validation of this software. A Ph.D. in biochemistry, toxicology or pharmacology is required. Previous experience with drug metabolism and toxicology, and cell culture is preferred. Send curriculum vitae, a brief summary of research interests and experience, and names, addresses, and telephone numbers of three references to: Dr. R. A. Dean, Department of Pharmacology and Therapeutics, Indiana University School of Medicine, 600 North University Boulevard, Room 4430, Indianapolis, IN 46202-5283.

BIOSYSTEM TECHNOLOGIES with its combination of scientific rigor and programming excellence, is the recognized leader in the field of computer-aided molecular design. We have a unique opportunity to create an Excel-compatible software package which will integrate all phases of biological macromolecular structure elucidation by X-ray crystallography with state-of-the-art molecular modeling, software and are seeking two innovative and self-motivated individuals to join the team for this position. Experience in clinical drug and water quality and statistical methods required. Qualifications include: a Bachelor's degree from an accredited college in biology, chemistry, pharmacy, or a related field and five years of experience in scientific studies. Preference will be given to persons with an advanced degree in limnology, aquatic toxicology, or a related field. Send resume with source of ad and position number to: ST. Johns River Water Management District, Office of Human Resources, P.O. Box 1429, Palatka, FL 32178-1429. Apply by July 15, 1994.

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POSITIONS OPEN

ENVIRONMENTAL SPECIALIST IV POSITION NUMBER 43010647
Palatka, Florida. Minimum $33,000. This is a senior research position for a water quality scientist, limnologist, or aquatic ecologist. Duties include: assisting in the development and implementation of a restoration project in a hypersaline lake in Central Florida, analyzing nutrient budget, assessing water and sediment quality, designing restoration approaches and implementing projects. Requires experience in lake restoration, water quality and statistical methods. Qualifications include: a Bachelor's degree from an accredited college in biology, limnology, chemistry, or aquatic biology and five years of experience in aquatic science.

Senior Scientist

Origin Corporation is a new biotechnology company specializing in the development of therapeutics targeting diseases associated with aging. The candidate must have a Ph.D. and preferably will have postdoctoral experience. The ideal candidate would have a background spanning molecular biology and chemistry. Origin is located in the Seattle area and offers an exceptional scientific environment and an attractive equity position and benefits package. Interested applicants should send their curriculum vitae to: Origin Corporation, 12277-134th Court N.E., Suite 100, Redmond, Washington 98052.

ANNOUNCEMENTS

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CapCURE, The Association for the Cure of Cancer of the Prostate, established with the goal of finding a cure for prostate cancer is soliciting proposals for its 1994/1995 funding year. Applications (in triplicate, 3 to 5 pages only) must be relevant biological or nonbiological approaches to the treatment of prostate cancer. NIH format bibliographies and the source of current funding should be included with the proposal. We particularly encourage proposals offering an interdisciplinary approach to research. Funding will range from $50,000 to $200,000 and is renewable annually. The due date is August 31, 1994, with expected funding in November.

Additional information can be obtained from: CapCURE, The Association for the Cure of Cancer of the Prostate 1250 4th Street, Suite 360 Santa Monica, CA 90401 FAX: (310) 458-8074

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Our Protein Crystallography Laboratory is equipped with two Rigaku 12 kw rotating anode x-ray generators, a Rigaku RAXIS IIC image plate and a Nicolet-Xentronics area detector. Our computer and graphics facilities are state-of-the-art. Abbott is also a member of the Industrial Macromolecular Crystallography Association (IMCA) which is actively pursuing the construction of two synchrotron beamlines for macromolecular crystallography in the Advanced Photon Source that is proposed to be in operation in 1996 at Argonne National Laboratory.

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