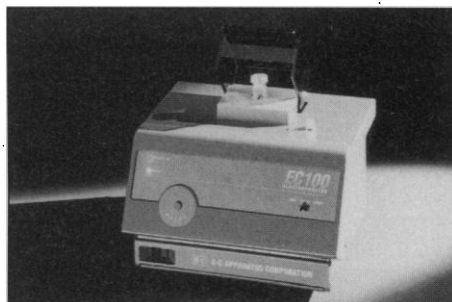


(continued from page 2146)

Electroporation Unit

The EC 100 Electroporator is a compact instrument that provides consistently high transformation efficiencies for bacterial, yeast, mammalian, and plant cells. Designed to facilitate the rapid processing of samples, it fea-

PRODUCTS



tures three settings, pulse recharge time under 10 sec, and push-button operation. The unit accommodates most standard cuvettes. There are two settings for bacteria and yeast cells using 1- and 2-mm cuvettes and a third for mammalian cells using 4-mm cuvettes. Operation is as simple as selecting the set-

ting, loading the sample, and pressing a button. An audible tone and indicator lamp are activated when the pulse has been delivered. **Sigma Chemical.** For information call 800-325-3010 or circle 144 on the Reader Service Card.

Coomassie Blue Destaining Pads

COZAP for Coomassie blue removal is a destaining pad in a "diaper" format. Placed in a destaining tank, it destains 5 to 10 minigels, recovers destaining solution, and reduces liquid waste. The gels have no charcoal or dye residues and no second wash is required. **The Nest Group.** For information call 800-347-6378 or circle 145 on the Reader Service Card.

Design of Experiment Software

Trial Run is a design of experiment package for Windows 95 that offers 41 different design types and covers six chart types and a wide range of statistical results. Trial Run provides users with the power to examine their current

process, study all the factors involved, and determine the best settings for the process. After identifying the goals of the experiment, users can quickly get started by using the Coach feature, which guides the user in selecting the appropriate experiment to run. Trial Run then generates the experimental trials that should be conducted, and automatically sets up the appropriate in-depth analysis of the results of the trials. **SPSS.** For information call 800-525-4980 or circle 146 on the Reader Service Card.

Ultraviolet-to-Visible Light Converter

The Ultra-Glo Ultraviolet (UV)-to-Visible Light Converter is a fluorescent-dyed acrylic polymer that converts UV radiation of any wavelength into visible light. It provides an inexpensive and easy-to-use visible light source for imaging visible-stained gels on a conventional UV transilluminator. Most labs need to image gels with both UV stains (for example, ethidium bromide) and visible stains (for example, Coomassie blue), and require both visible and UV light sources. With Ultra-Glo

(continued on page 2148)



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(continued from page 2147)

there is no need to purchase separate transilluminators, eliminating the extra cost, extra bench space, and inconvenient switching of light boxes. The user simply places a piece of Ultra-Glo on the UV surface of a transilluminator for visible light imaging and removes it for normal UV operation. Ultra-Glo diffuses as it fluoresces, and actually provides more even illumination than many white light illuminators. It eliminates traditional shadowing problems and increases image clarity, especially when viewing poor bands. **Ultra-Lum.** For information call 562-529-5959 or circle 147 on the Reader Service Card.

Microscopy Camera Kit

The Microscopy Camera Kit is available as an accessory for the AlphaMager and for digital imaging systems. It is a sensitive, high resolution, black-and-white charge-coupled device (CCD) camera that provides on-chip integration for the sensitivity required for fluorescence detection. When combined with the AlphaMager imaging system, a completely integrated imaging platform is created with the standard CCD camera of the AlphaMager visualizing gel electrophoresis and



the microscopy camera kit attached to any microscope with a C-mount adapter and trinocular phototube. **Alpha Innotech.** For information call 800-795-5556 or circle 148 on the Reader Service Card.

Colony Picking Robot

The BioPick can pick more than 9000 colonies in one unattended run. The instrument reduces the risk of contamination by on-line plate filling and lid removal. In addition, the instrument's needle is sterilized after each use in a constantly replenished ethanol bath. It contains no flexing

wires or moving electrical components, and vibration is minimized. **BioRobotics.** For information call +44(0)1223 264345 or circle 149 on the Reader Service Card.

Literature

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Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS of any products or materials mentioned in Tech.Sight is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Reader Service Card and placing it in a mailbox. Postage is free.

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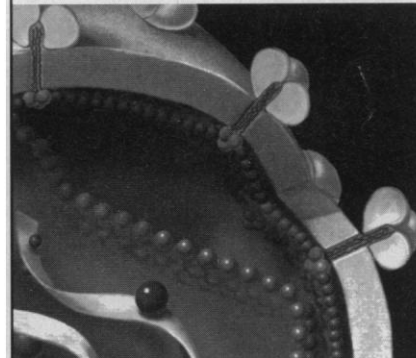
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POSITIONS OPEN

PROFESSOR AND HEAD DEPARTMENT OF ANATOMY, PHYSIOLOGY, AND PHARMACOLOGY

Applications and nominations are solicited for the position of Professor and Head of the Department of Anatomy, Physiology, and Pharmacology, Auburn University College of Veterinary Medicine. The Department was recently formed by merger of the Departments of Anatomy and Histology, and Physiology and Pharmacology. Departmental personnel currently include 21 tenure-track faculty members. Activities of the faculty include instruction in veterinary and graduate curricula, research programs, diagnostic services, and outreach.

Essential qualifications for the position are a Ph.D. or D.V.M. degree with research training in a relevant biomedical discipline and strong records of research and teaching accomplishments. Preference will be given to individuals who hold both Ph.D. and D.V.M. (or equivalent) degrees. In addition, preference will be given to individuals who have demonstrated administrative abilities, have experience with veterinary medical or biomedical teaching, and have a history of sustained extramural funding, and currently direct an active research program in an area that complements a current departmental interest. The successful candidate will be expected to provide leadership/participation in professional and graduate education; promote the development of high quality research; facilitate faculty development in areas of teaching and research; represent the Department and faculty within the College and University; and relate trends in veterinary medicine to strategic planning and the mission of the College.

Applications must include a letter describing teaching, research, and administrative philosophies and a vision of the Department's role in the College and University, curriculum vitae, and the names, addresses, and telephone numbers of three references. Review of applications will begin March 1, 1998, and will continue until a candidate is recommended for appointment. Position is available October 1, 1998. Send applications, nominations, and inquiries to: Dr. Lauren G. Wolfe, Search Committee Chair, College of Veterinary Medicine, Auburn University, AL 36849. Telephone: 334-844-4539; FAX: 334-844-2652.

Auburn University is an Affirmative Action/Equal Opportunity Employer and Educational Institution. Minorities and women are encouraged to apply.

FACULTY POSITION PATHOGENESIS OF BACTERIAL AND FUNGAL INFECTIONS

The Department of Microbiology and Immunology at the University of Arkansas for Medical Sciences seeks to fill a 12-month, tenure-track, state-supported faculty position at the ASSISTANT or ASSOCIATE PROFESSOR level. Research interests should emphasize molecular approaches to the study of the pathogenesis and/or cell biology of bacterial or fungal organisms. Increased consideration will be given to individuals studying organisms responsible for opportunistic infections. The applicant must have a Ph.D., M.D., D.V.M., or equivalent with postdoctoral experience. The individual will be expected to develop an independent research program and participate in teaching activities within the department's graduate and medical student programs. Generous start-up funds and laboratory space in a new Biomedical Research Building will be provided. Address inquiries, along with curriculum vitae, statement of present and future research interests, and the names of three references to: Roger G. Rank, Ph.D., Department of Microbiology and Immunology, University of Arkansas for Medical Sciences, 4301 West Markham, Little Rock, AR 72205. The University of Arkansas for Medical Sciences is an Equal Opportunity Employer.

TWO FACULTY POSITIONS ASTRONOMY AND CHEMISTRY

Bellevue Community College (BCC), a two-year college in the Puget Sound region of Washington state, invites applications for two tenure-track teaching positions to begin fall quarter 1998. Both positions require a Master's degree. The college is the largest community college in the state. BCC is diverse, innovative, and renowned for quality instruction. For an application packet, call our Jobline at Telephone: 425-643-2082 or visit website: www.bcc.ctc.edu/joblist. Application deadline February 6, 1998, or until filled. BCC is an Equal Opportunity Employer and operates under an Affirmative Action Plan.

POSITIONS OPEN

TENURE-TRACK FACULTY POSITION IN SIGNAL TRANSDUCTION TEXAS A&M UNIVERSITY Department of Medical Biochemistry and Genetics University of Health Science Center and Center for Cancer Biology and Nutrition Alkek Institute of Biosciences and Technology

Position: The position will be housed in the new 11-story Alkek Institute of Biosciences and Technology (IBT) research tower located in the Texas Medical Center, Houston, Texas. The IBT is composed of groups of faculty with appointments in academic units in Texas A&M University doing research in DNA structure and genomic research, extracellular matrix biology, skeletal and infectious disease, structural biology, and bioinformatics, which bridges medicine and agriculture at the cell and molecular levels interactions between the Texas Medical Center and the Texas A&M University System. The Center for Cancer Biology and Nutrition (CCBN) focuses on mechanisms of signal transduction whose dysfunction may be involved in cancer.

Application: Applications will be considered for a tenure-track position at the ASSISTANT PROFESSOR level. Applicants must have a Ph.D., D.V.M., or M.D. degree, exhibit research contributions in cell, molecular, and/or developmental biology, and have potential to develop an independent teaching and research program related to cancer biology. Applicants with background and interests in molecular cell biology, developmental biology, molecular genetics, and structural biology are encouraged to apply. Preference will be given to areas addressing cell structure function relationships. More information about the Institute of Biosciences and Technology and Texas A&M University can be found on the Internet at website: <http://www.tamu.edu/ibt/ibt.htm>.

Interested individuals should send a letter of application and curriculum vitae, and have three letters of reference sent to: Dr. Wallace L. McKeehan, c/o Ms. Diana Taylor, Department CCBN, Institute of Biosciences and Technology, Texas A&M University, 2121 West Holcombe Boulevard, Houston, TX 77030-3303. Texas A&M University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN X-RAY CRYSTALLOGRAPHY/DRUG DESIGN

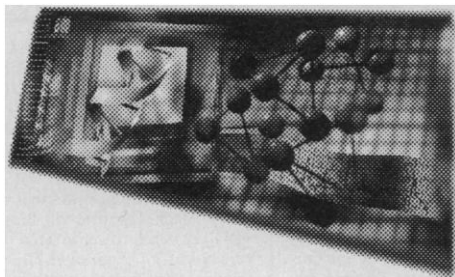
Applications are being accepted for a tenure-track position at the level of ASSISTANT PROFESSOR in the Division of Medicinal Chemistry and Pharmacuetics of the University of Kentucky College of Pharmacy. The successful candidate will be expected to develop an independent and innovative research program in the area of X-ray crystallography of macromolecules, including proteins, with emphasis on computational-based drug design. Expertise in molecular modeling is a desirable skill. Duties will include teaching and the direction of Ph.D. dissertation research. Excellent facilities and collaborative opportunities exist within the Kentucky Center for Structural Biology at the University. Interested candidates should send their résumé, a statement of research interests, and the names and mailing and e-mail addresses of three references to: Dr. Daniel Tai, College of Pharmacy, University of Kentucky, Lexington, KY 40536-0082. E-mail: htai@pop.uky.edu.

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FACULTY POSITION UNIVERSITY OF CHICAGO

The Department of Pediatrics at the University of Chicago invites applications for a SENIOR faculty position in the Section of Pediatric Hematology/Oncology. The successful applicant will join a research program focused on the regulation of intercellular communication. The position requires a Ph.D. or M.D.-Ph.D., and preference will be given to applicants studying ion channel biophysics. Applicants should have a strong record of research accomplishments and will be expected to develop independent funding. The successful candidate will be expected to establish a nationally recognized research program and will have teaching opportunities at the undergraduate, graduate, and postdoctoral levels.

Interested candidates should send a curriculum vitae and the names and addresses of three references by February 1, 1998, to: Dr. Eric C. Beyer, University of Chicago Children's Hospital, MC4060, 5841 South Maryland, Chicago, IL 60637-1470. The University of Chicago is an Affirmative Action/Equal Opportunity Employer.



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■ SENIOR SCIENTIST PURIFICATION DEVELOPMENT

In this position, you will be responsible for the development of processes for the manufacturing of biopharmaceuticals and the transfer of these processes to Covance's cGMP manufacturing facility. A Ph.D. (or equivalent experience) in Biochemistry or Protein Chemistry is required. 5+ years of experience in protein purification and protein chemistry is also required along with knowledge in the areas of chromatographic methods, centrifugation, and ultrafiltration techniques. Relevant cGMP experience will be considered a significant plus. (Job Code: SC-121)

■ SENIOR SCIENTIST FORMULATION DEVELOPMENT

In this position, you will be responsible for the development of formulations and formulation processes for protein therapeutics. You should be knowledgeable in the field of biophysical chemistry and in techniques to achieve protein formulations with long-term stability. You should have experience in developing formulations for lyophilization as well as lyophilization cycle development. Your analytical experience should include methods for quantitation of protein degradation and characterization of degradation products. A Ph.D. (or equivalent experience) in Biochemistry or Protein Chemistry and 5+ years of relevant experience is required. Relevant cGMP experience will be considered a significant plus. (Job Code: SC-122)

■ SENIOR SCIENTIST CELL CULTURE AND FERMENTATION PROCESS DEVELOPMENT

In this position, you will be responsible for the development of cell culture and fermentation processes for the manufacturing of biopharmaceuticals. You will also be involved with the transfer of these processes to Covance's cGMP manufacturing facility. Experience in computer monitoring and control of bioreactors is a plus. You should have a Ph.D. (or equivalent experience) in Cell Biology or Microbiology and 5+ years of relevant experience. (Job Code: SC-123)

■ RESEARCH ASSOCIATES ANALYTICAL PROTEIN CHEMISTRY

In these positions, you will be responsible for the development of analytical procedures for the characterization and analysis of protein pharmaceuticals. Your analytical experience should include some of the following techniques: protein sequencing, peptide mapping, glycosylation analysis and other biochemical and biophysical protein analytical tools. Experience in transferring assays to a quality control group is also desired. A BS or MS in Chemistry or Biochemistry along with 3+ years of relevant experience is required. (Job Code: SC-124)

■ MANUFACTURING ASSOCIATES FERMENTATION/CELL CULTURE/PURIFICATION

In these positions, you will be responsible for the manufacture of cell culture and/or fermentation products including protein purification. A BS degree in a technical area (or equivalent job-related experience) is required, along with 2+ years of hands-on experience in a cGMP environment, including experience with fermentors, bioreactors, centrifugation equipment, chromatographic and/or ultrafiltration systems. (Job Code: SC-125)

Please send resume with job code to: Covance Biotechnology Services, Director-Human Resources, P.O. Box 13865, Research Triangle Park, NC 27709-3865; FAX: (919) 468-9070. Only those selected for further consideration will be contacted. PRINCIPALS ONLY. Covance is an equal opportunity employer.

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DRUG PRODUCT DEVELOPMENT – STAFF SCIENTIST

Our Drug Product Development group has an immediate opening for a Ph.D. degreed individual in Biochemistry, Analytical Chemistry, or related field with several years of relevant experience to be responsible for the formulation and dosage form development of a new protein pharmaceutical product. The selected individual will coordinate a team effort in understanding the formulation and the fill and finish process. Strong background in HPLC and electrophoretic methods development is required. Previous formulation development experience with lyophilized products desirable. Strong interpersonal and communication skills essential. **Job Code: SCI-729-LL**

DRUG PRODUCT DEVELOPMENT – STAFF SCIENTIST

Lead a group of 4 talented individuals responsible for the development and characterization of Bone Morphogenetic Protein (BMP) delivery matrices. This will include matrices based on collagen and hydroxyapatite, as well as other materials. Responsibilities include understanding the nature of the interaction of BMP with the matrices, determining critical features of the matrices with regard to biological efficacy, and helping to develop manufacturing processes for the matrices that reproducibly yield material with the desired properties. Requires a Ph.D. with postdoctoral experience (industrial or academic) and extensive experience in working with drug delivery matrices from the perspective of both manufacturing and characterization. Experience with collagen and/or hydroxyapatite based matrices is highly desirable. Additional exciting opportunities exist within the Drug Product Development Area. Please refer to our web site. **Job Code: SCI-191-LL**

SCIENTIFIC/ENGINEERING STAFF

Focus on the application of fermentation and cell culture technology to the development and characterization of processes for manufacturing bio-pharmaceuticals. This will require design and execution of laboratory experiments, development of assays suitable for optimizing fermentation processes, and participation on cross-functional teams. Requires a Ph.D. and a minimum of 5 years of relevant work experience in applied microbial physiology or biochemistry with a strong analytical background including methods and assay development. Excellent verbal and written communications skills are a must. Experience and interest in high yield cell culture and microbial fermentation process development is highly desired. Additional exciting opportunities exist within the Drug Product Development Area. Additional exciting opportunities exist within the Mammalian Microbial Cell Sciences/Pilot Lab. Please refer to our web site. **Job Code: SCI-713-LL**

ASSAY SUPPORT AND CHARACTERIZATION STAFF

Be involved in the development, validation and application of various biochemical methods and/or bioassays in support of process/product development and eventual transfer to QC. Additional support activities include characterization and analysis of biopharmaceutical materials destined for clinical and preclinical use. Multiple positions are available. These positions require a BS and 2-5 years of laboratory experience with standard protein analytical techniques, including HPLC and Gel Electrophoresis, or cell-based bioassays. Experience with cGMPs and familiarity with computers and data analysis techniques is a plus. **Job Code: SCI-TL-LL**

Genetics Institute is a leading, global bio-pharmaceutical company, dedicated to the discovery, development and commercialization of innovative protein-based therapeutics for the treatment of serious human medical conditions, including treatments for anemia, hemophilia, cancer, bone damage, inflammatory conditions, and immune system disorders. We have been successfully bettering the lives of others for nearly two decades, while working in a leading-edge, collaborative team environment. If you want to experience a unique environment, where your efforts and contributions are rewarded, make sure you speak with us!

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If you are interested in applying for any of these positions, please forward your resume, indicating Job Code, to: L. Lesyshyn, Human Resources, Genetics Institute, One Burt Road, Andover, MA 01810; Fax: (978) 623-2607; E-mail: Llesyshyn@genetics.com

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Drug Disposition Scientists, Peptides - BS, MS, Ph.D.

Scientists to join the protein team within the department of Drug Disposition in the areas of therapeutic protein/peptide metabolism and distribution. Applicants for senior scientist positions (Ph.D. degree) will be expected to direct the research efforts of other protein team members. Experience desired in protein chemistry, protein analytical techniques, and therapeutic protein metabolism. Knowledge of pharmacology and GLP guidelines would be helpful.

Drug Metabolism and Disposition Scientists BS, MS, Ph.D.

Scientists to establish a laboratory program utilizing basic and applied approaches to study the metabolism and disposition of new chemical entities. Experience in developing methods to study absorption, distribution, metabolism, and excretion of drugs in animal models and humans is desired.

Bioanalytical Chemist - LC/MS - BS, MS

Scientist to perform LC/MS analysis in support of pharmaceutical discoveries. Background desired in quadrupole-based LC/MS instrumentation and fundamental understanding of organic chemistry with experience in assay development.

Formulations Scientists - BS, MS, Ph.D.

Scientists to employ formulations expertise and techniques to select/accelerate lead candidate compounds, define formulation/delivery problems and provide solutions early in the lead optimization process, and establish chemical and physical characteristics of early lead candidate compounds. Experience required in pharmaceutical science, physical organic chemistry, or related discipline.

Organic Chemist - BS, MS.

Creative and talented chemist to conduct the synthesis of radioiodinated proteins and small molecules. The successful candidate will have a BS/MS in chemistry with 0-3 years of experience in synthetic organic chemistry. This position requires an organic chemist versed in the latest synthetic methods and techniques. The individual must be knowledgeable in spectroscopic techniques and proficient in analytical/preparative chromatography (TLC/HPLC). Previous experience in the handling of radiolabeled compounds is a plus. Good oral and written communication skills are essential.

Research Associate/Drug Disposition - QWBA - BS, MS

BS or MS degreed chemist with minimum 1-2 years experience in quantitative whole-body autoradiography. Previous experience or willingness to work with animals is required. Familiarity with animal anatomy/physiology, computer skills, and radioisotope handling is advantageous. Self-motivation and strong interpersonal, organizational and communication skills are imperative.

Toxicology Project Leader - Ph.D.

The Toxicology Research Laboratories has a position available for an individual trained and experienced in toxicology, pharmacology, or related sciences. A Ph.D. degree and at least 3-5 years of drug development experience in either an industrial or academic environment are required for this position. The successful applicant will provide key scientific leadership of preclinical toxicology planning processes, will serve as Study Director, and will represent toxicology in discussions with regulatory agencies.

Toxicology Project Associate - BS, MS

The Toxicology Research Laboratory has two Toxicology Project Associate positions available for individuals trained and experienced in toxicology, pharmacology or related sciences. A BS or MS degree with 3-5 years postgraduate experience in either an industrial or academic environment are required for these positions.

The successful applicant will directly support activities related to the timely development and execution of preclinical studies that support clinical trials and registration of pharmaceutical products. Desirable candidates will possess a working knowledge of general toxicology study and Good Laboratory Practice procedures. Candidates must demonstrate a high level of initiative and commitment as well as excellent organizational, interpersonal, and communication skills.

Toxicologist, Developmental Toxicology and Teratology - BS, MS

The principal responsibility of the Toxicologist is to coordinate and supervise teratology, reproduction, and/or behavioral studies in rodent and nonrodent species to support the registration of pharmaceutical products. This responsibility includes supervising and evaluating the performance of a team of technicians; ensuring compliance of studies and reports with GLPs and established guidelines; and analyzing, interpreting, documenting, and reporting study results.

The position requires developmental toxicology, toxicology, pharmacology, experimental psychology, chemistry, biology, or related background. Supervisory and lab animal experience would be valuable. A minimum of a BS/BA degree in a science-related discipline is necessary.

Toxicologist, Genetic Toxicology - BS, MS

The Genetic and Molecular Toxicology group is seeking a Genetic Toxicology Associate. The primary responsibility of the individual will be the independent conduct of the chromosome aberration assay in accordance with GLPs and regulatory guidelines. There will also be the potential for involvement in the micronucleus test, participation in developing or assessing new technologies and conducting research to enhance risk assessment capabilities.

Experience in other genetic toxicology assays is a plus as well as experience with other screens such as the comet assay. A BS or MS in a biological science with experience in cytogenetics in a genetic toxicology laboratory is preferred.

Molecular Toxicologist - Ph.D.

The Genetic and Molecular Toxicology group is also seeking a research scientist to develop new technologies in the field of molecular toxicology. This individual will investigate cellular mechanisms of genotoxicity as well as coordinate efforts to develop high throughput screens to aid in the process of compound lead optimization. The individual will be expected to be resourceful in applying new technologies in molecular biology to answer questions relevant to compound development. Working knowledge of routine toxicology studies would be an advantage accompanied by the ability to apply one's expertise to resolve issues surrounding these types of endpoints. Studies in gene expression, identification of molecular markers of toxicity, and development of cell culture systems as toxicity models are all potential areas of investigation.

Candidate should have the ability to work independently in a laboratory setting and possess the ability to present results to multidisciplinary teams. This individual will have the opportunity to staff a new laboratory with state-of-the-art equipment and will be expected to interact with cohorts in Investigative Toxicology. Applicants should have a Ph.D. in toxicology, pharmacology, cell biology or a related field with up to 4 years of relevant postdoctoral training or experience. Excellent verbal and written communication skills and a publication record are a must.

Toxicologist, CNS/Behavioral Toxicology - BS, MS

The CNS/Behavioral Laboratory in the Toxicology Division is seeking a CNS/Behavioral Associate. The primary responsibility will be the conduct of behavioral evaluations in mice or rats in accordance with GLPs and regulatory guidelines. Current evaluations include a wide range of CNS test procedures. There is the potential for involvement in report writing, primate experiments, problem solving, and the development of new laboratory methodologies.

Previous experience in a behavioral laboratory and/or pharmaceutical GLP experience would be an asset in the position. A BS or MS degree in biological science or neuroscience with related laboratory experience is preferred.

Toxicologist, MSDS/Risk Assessment - MS

We currently have a position available for an individual trained and experienced in toxicology, pharmacy, pharmacology, or related fields. An MS degree is required. The successful candidate will review, interpret, and summarize toxicological data for the development and revision of Material Safety Data Sheets and Labels. The scientist will also write risk assessments for chemicals that are used in industrial settings or that may enter the environment. Considerable interaction will be required with others involved in assuring safety information in the workplace.

Chemist, MSDS/Risk Assessment - MS

We have a position available for an individual trained and experienced in chemistry, pharmacology, or related fields. An MS degree is required. The successful candidate will identify and write the chemical identity and physical parameter sections of the Material Safety Data Sheets and Labels. A good working knowledge of chemical nomenclature is required. The scientist will also participate in researching the chemical information required to write risk assessments for chemicals that are used in industrial settings or that may enter the environment. Considerable interaction will be required with chemists and others involved in assuring safety information for the workplace.

Toxicologist, Inhalation Toxicology - BS, MS

A major responsibility will be to organize, supervise and report on inhalation toxicology studies of inhaled pharmaceuticals and other chemical agents in large and small laboratory animals. In depth knowledge of pulmonary physiology and biology is required as these studies frequently include measurements of pulmonary function, bronchoalveolar lavage and other specialized endpoints. Experience with aerosol generation and characterization methods is an asset, as is experience in a GLP environment. Familiarity with molecular and/or cellular biology methods to study the pharmacological or toxicological effects of inhaled materials in the lung is highly desirable. An MS in biological science is preferred.

Eli Lilly and Company

offers excellent salaries and competitive benefits. Please send resume with cover letter, **indicating specific title of the position of interest** to Human Resources at:

Eli Lilly and Company

Greenfield Laboratories

P.O. Box 708

Greenfield, IN 46140

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**Dean of the College of Associated
Health Professions
University of Illinois at Chicago**

Applications are invited for the Dean of a dynamic health sciences-related college at the University of Illinois at Chicago (UIC). The College of Associated Health Professions includes the Departments of Disability and Human Development; Human Nutrition and Dietetics; Occupational Therapy; Physical Therapy; and the Schools of Kinesiology; and Biomedical and Health Information Sciences. The appointment is expected to take effect September 1, 1998.

The College offers educational programs of excellence, training health professionals and researchers and leaders in health care. The College houses 3 Ph.D. programs, 7 master's degree programs, and 6 undergraduate degree programs which attract a diverse and talented student body. The College has 45 tenured/tenure-track faculty, state-funded faculty and 863 students. The College has a strong research mission and an exceptional research track record with over \$6 million in extramural funding for the current academic year. The College also has a firm commitment to community service reflected in the integration of some academic units with clinical services in the University of Illinois Hospital and Clinics and in a broad array of community-based service programs and relationships. The College of Associated Health Professions and other UIC health science colleges are located within the westside Medical Center District, the world's largest concentration of public and private health care facilities.

UIC, a Research I university, has 14 colleges, with approximately 16,000 undergraduate and 8,000 graduate and professional students. It is the largest university in northern Illinois and has a significant focus on health science research in ethnically and economically diverse populations.

Candidates for the position must have achieved national and international stature in their fields; have a demonstrated commitment to academic excellence and diversity; and be able to provide leadership in advancing the College's research, education, and service missions. The ability to work collegially and effectively with faculty and multidisciplinary constituencies within UIC, and to continue to develop and enhance relationships with external constituencies is essential. The position requires administrative experience that demonstrates a capability to lead an academic unit. A candidate's scholarly accomplishments should qualify him/her for appointment as a full professor in one of the College's academic units.

Evaluation of applications and nominations will begin immediately and will continue until the position is filled. Applications, accompanied by a complete curriculum vitae, should be sent to:

**Dr. Susan C. Scrimshaw, Chairperson
Search Committee for the Dean of the College of
Associated Health Professions
c/o The School of Public Health
MC: 922, University of Illinois at Chicago
2121 West Taylor Street
Chicago, IL 60612-7260
<http://www.uic.edu/hsc/acad/cahp/search>**

*The University of Illinois at Chicago is an Affirmative
Action/Equal Opportunity Employer. Women, minorities,
and people with disability are encouraged to apply.*

KILLAM MEMORIAL CHAIR

The University of Calgary is seeking nominations or applications for the Killam Memorial Chair in Science or Engineering. This Chair is the University's premier research position in science and engineering. Candidates are sought who will provide intellectual leadership, preferably over a range of disciplines. The Chair will nominally be housed in one of the departments of the Faculties of Science, Engineering, Kinesiology, or Medicine (basic medical sciences.) However, the Chairholder can establish formal relationships with other departments.

The University of Calgary is one of Canada's most research intensive universities with an established reputation for leadership in many areas of science and engineering. Its research programs are both internationally recognized and also strong in their capacity to support strategic directions in Calgary, Alberta, Canada.

The duties of the Chair must include establishment of an innovative research program, mentoring of graduate students and other emerging researchers, and teaching one or two courses at the graduate or undergraduate level.

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary is committed to Employment Equity.

Applications and nominations, along with a curriculum vitae and the names and addresses of three references, should be submitted by January 30, 1998, to:

Dr. Cooper H. Langford, Vice-President (Research)
The University of Calgary,
2500 University Drive N.W., Calgary, Alberta, T2N 1N4
Tel: (403)220-3381 Fax: (403)289-6800



www.ucalgary.ca



UNIVERSITY OF MISSOURI - COLUMBIA MOLECULAR MICROBIOLOGY AND IMMUNOLOGY POSTDOCTORAL POSITIONS

General areas of research include:

- Molecular aspects of microbial pathogenesis and microbial immunology
- Molecular approaches to immunobiology and immunochemistry; mechanisms of B-cell activation, induction of autoimmunity, class I antigen presentation, T lymphocytes, lymphocyte trafficking, mucosal immunity, protective immunity against HIV
- Regulation of gene expression in prokaryotic and eukaryotic systems including: iron regulated operons in *E. coli*, mycoplasma and yeast systems, the protozoan parasite *Leishmania* and molecular virology (DNA viruses and retroviruses)
- Membrane structure and function; mechanisms of phenotypic switching; surface antigen variation
- Intracellular signaling mechanisms in neutrophils, lymphocytes, yeast
- Mechanisms of oncogene action in eukaryotes
- Early nematode development; analysis of germline lineage determination in *Caenorhabditis elegans* and *Ascaris lumbricoides*
- Pathogenic mechanisms of *Vibrio cholerae*, *Haemophilus influenzae*, *Borrelia*, *Rickettsia*, *Ehrlichia*
- Vibriophage, vibriochins, horizontal transmission of genetic information, and territoriality of cholera vibrios
- Regulation of alternative splicing in eukaryotes
- Vaccine development

Complete descriptions of research programs are available.

Direct inquiries to: Ms. Sandy Selby, Dept. of Molecular Microbiology and Immunology, University of Missouri, M616 Medical Sciences, Columbia, Missouri 65212 Phone (573) 882-8989 Fax 882-4287
Qualified applicants may be supported by a departmental NIH training grant, an interdisciplinary Molecular Biology Program fellowship, or individual research grants. The University of Missouri is an Equal Opportunity Employer and encourages applications from females and minorities.

US Environmental Protection Agency Office of Research and Development

EPA is seeking four highly qualified scientific managers to provide executive leadership for research divisions strategically located in ecologically significant geographic regions across the U.S. These divisions contribute to developing the scientific foundation to support EPA's mission with emphasis on reducing uncertainty in risk assessment. Successful candidates for these positions will plan, develop, organize, direct, and implement multimillion dollar research programs.

Division Director, Environmental Sciences Division, National Exposure Research Laboratory, Las Vegas, Nevada.

This Division is responsible for conducting research and for directing development and technology transfer programs on environmental exposures to ecological and human receptors. Areas of specialization include:

- methods for characterizing chemical and physical stressors, with special emphasis on ecological exposure.
- landscape and regional assessment capabilities through the use of remote sensing and advanced spatial analysis techniques.
- application of advanced monitoring technology to issues involving surface and subsurface contamination.

Division Director, Mid-Continent Ecology Division, National Health and Environmental Effects Research Laboratory, Duluth, Minnesota.

This Division performs research to provide scientific information on ecotoxicology and freshwater ecological effects with an emphasis on the Great Lakes and Great Plains regions. Areas of specialization include:

- understanding mechanistic bases of aquatic toxicity.
- developing methods and models that screen, diagnose, and predict ecological effects for use in ecological risk.

Division Director, Atlantic Ecology Division, National Health and Environmental Effects Research Laboratory, Narragansett, Rhode Island.

This Division's research focuses on marine, coastal, and estuarine ecology. Investigators develop and evaluate theory, methods, and data on coastal waters and watersheds of the Atlantic. Areas of specialization include:

- modeling the effects of multiple stressors on coastal ecosystems.
- developing methods for assessing ecological effects associated with contaminated marine sediments.
- conducting geographic-based ecological assessments for the Atlantic coast.

Division Director, Gulf Breeze Ecology Division, National Health and Environmental Effects Research Laboratory, Gulf Breeze, Florida.

The mission of this Division is to assess the condition of coastal ecosystems (wetlands, bays, estuaries, and coral reefs) in the Gulf of Mexico and to identify causes of change in ecological status. Areas of specialization include:

- studies of effects across multiple levels of biological organization (from microorganism to the watershed/landscape level).
- developing models that predict the impact of chemical contaminants, disease, nutrients, energy development, and global warming on coastal ecosystems.
- microbial ecology.

To meet the requirements of these positions, applicants must have a Bachelor's (or higher) degree in one of the biological or physical sciences (advance degree preferred, but not required). Candidates must also have competence and substantive specialized (operating, administrative, or managerial) experience in a type of work or a combination of functions directly related to this position. In addition, applicants must meet the executive and technical qualifications described in the vacancy announcement. Salary will be commensurate with level of appointment in the federal Senior Executive Service. To obtain a copy of the vacancy announcement for each position in which you are interested, call or write to:

**Ms. Dione Moody, U.S. EPA, Executive Resources & Special Programs (3641),
401 M Street, SW, Washington, DC 20460.** The telephone number is **202-260-6374**.

Applications must be postmarked by 2/27/98.

EPA is an Equal Opportunity Employer.

UNIVERSITY OF MINNESOTA

Medical School Assistant Professor in Cell Biology

The Department of Cell Biology and Neuroanatomy seeks applications for a tenure track assistant professor position. All areas of cell biology will be considered, but particular consideration will be given to research directed at signal transduction mechanisms. Candidates will be expected to develop a strong, independent research program that leads to external funding. Applicants must possess a Ph.D. or equivalent degree and have at least two years of postdoctoral experience. Candidates must be U.S. citizens or be able to secure permanent resident status and must provide verification of highest degree. Strong candidates will have significant publications in high quality peer-reviewed journals and will be engaged in research that complements the departmental strengths in cell biology, developmental biology and neuroscience. A demonstrated ability to interact and collaborate will be favored. The teaching assignment will be in appropriate departmental courses that are offered to professional students, undergraduates, or graduate students in several interdepartmental programs. Candidates should send curriculum vitae, statement of research interests, and arrange for three reference letters to be sent to: Hasina Hason, University of Minnesota, Department of Cell Biology and Neuroanatomy, 4-144 Jackson Hall, 321 Church St. S.E., Minneapolis MN 55455. The last date for receipt of applications is March 1, 1998.

The University of Minnesota is an equal opportunity educator and employer.



DIRECTOR OF BLOOD BANKING/ TRANSFUSION MEDICINE

The Department of Pathology and laboratory Medicine invites applications for the position of Director of the Blood Bank/Transfusion Medicine at the Assistant or Associate Member rank. The candidate must hold an M.D. or M.D., Ph.D. Degree(s), be board certified or eligible in Clinical Pathology and have a strong commitment to active support of the clinical services and have an independently funded research program or have the potential to establish such a program. Candidates with research interests in the molecular mechanisms of hematopoietic stem cell development, stem cell isolation and *in vitro* expansion, gene therapy, or graft versus host disease are particularly encouraged to apply.

The transfusion medicine service within the Department of Pathology includes the blood bank, HLA laboratory, and pheresis and donor services. These combined laboratories perform over 10,000 transfusions and 2,600 blood product collections per year and provide support for one of the largest pediatric bone marrow transplantation program in the country and an active program in Cell and Gene Therapy. Strong interdepartmental research programs are present in molecular oncogenesis, viral oncogenesis and tumor immunology, hematopoietic malignancies, pediatric solid tumors, signal transduction and developmental neurobiology. Research and clinical activities are carried out in adjoining state-of-the-art buildings that provide an environment that fosters close collaborations between basic and clinical investigators.

Applicants should send a curriculum vitae, description of research interests, and three letters of recommendation to: **James R. Downing, M.D., Chairman, Department of Pathology and Laboratory Medicine, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38105.**



DEAN

FACULTY OF ARTS AND SCIENCES — NEWARK

Rutgers, The State University of New Jersey, invites nominations and applications for the position of Dean of the Faculty of Arts and Sciences, Newark. The Faculty of Arts and Sciences is a vital, research-active faculty providing strong academic and research programs for both undergraduate and graduate programs (Master's and Ph.D. programs offered through the Newark College of Arts and Sciences, University College-Newark, and the Graduate School-Newark). Reporting to the Provost of the Newark Campus, the Dean has responsibility for 267 faculty and 5400 students. The Dean works closely with the Dean of the Graduate School-Newark, the Deans of the other colleges and professional schools on the Newark Campus, and the major academic, cultural, and scientific institutions in Newark. Founded in 1936, the Newark College of Arts and Sciences is part of a multi-campus state university, with locations in Newark, New Brunswick, and Camden.

Applicants for the position of Dean must have an earned doctorate or equivalent in an appropriate academic discipline, significant teaching and administrative experience, and a record of outstanding scholarly achievement commensurate with appointment as a full professor in the Rutgers University system. The Dean must have the capacity to provide dynamic leadership and creative support for a faculty committed equally to excellence in research and teaching. The Dean will also have a unique opportunity to play a leadership role in Newark's renaissance by identifying and implementing collaborations between the campus and the city's educational, cultural, and scientific institutions.

Review of applications will begin January 15, 1998, and will continue until the position is filled. It is expected that the new Dean will be able to assume office by July 1, 1998. Please send a letter of interest and c.v. and arrange to have five letters of recommendation sent to: **Professor Jan Lewis, Chair, FAS-N Dean Search Committee, c/o Provost's Office, Rutgers, The State University of New Jersey, 15 Washington Street, Newark, New Jersey 07102.**

Additional information about the campus and the University is available at <http://inf.rutgers.edu/newark/rutgers-newark.html>.

Rutgers University is an Equal Opportunity/Affirmative Action Employer.

NATIONAL INSTITUTES OF HEALTH

Undergraduate Scholarship Program (UGSP)

Qualified undergraduates can train and be mentored at the cutting edge of biomedical research while receiving scholarship support.

The UGSP is sponsored by the National Institutes of Health (NIH), the Federal Government's lead biomedical research and research training agency. NIH offers scholarships to qualified individuals who are committed to a career in biomedical research.

Scholarships up to \$20,000 per year support tuition, educational, and qualified living expenses (room, board, transportation) while students pursue an undergraduate degree.

During each year of the award, scholars serve for 10 weeks (with salary/benefits) as employees in NIH research laboratories. They are assigned mentors, participate in seminars and programs available to all NIH researchers, and are provided with housing and transportation. After graduation, they serve 1 year of full-time employment at NIH for each year of scholarship support.

Interested students should apply if they:

- Are committed to a career in biomedical research;
- Are from a disadvantaged background;
- Have a GPA of 3.5 or are in the top 5 percent of their class;
- Are a U.S. citizen, national, or permanent resident;
- Are enrolled or accepted for enrollment as a full-time student at a qualified accredited institution.

This is a special opportunity for special students.

For more information, contact

NIH/OD/OIR/OLRS

UGSP

7550 Wisconsin Avenue, Room 604

Bethesda, MD 20892-9121

Phone: 800-528-7689

Fax: 301-402-8098

e-mail: ugsp@nih.gov

TTY: 1-888-352-3001

<http://ugsp.info.nih.gov>



La Jolla Institute for Allergy and Immunology (LIAI)

Postdoctoral Positions

LIAI is a non-profit, publicly and privately supported organization dedicated to basic biomedical research and training in the areas of T cell biology and allergic disease. The Institute has ~150 employees and seven Research Divisions, and is located in a recently expanded and well equipped facility in the midst of the La Jolla scientific community. Positions are currently available for productive, highly qualified and motivated individuals in the laboratories of the following investigators:

- 1) *Amnon Altman* (amnon@liai.org): The function of Cbl, inhibitory receptors, PKC and Vav in TCR-mediated signaling.
- 2) *Michael Croft*: (mick_croft@liai.org): Costimulatory interactions involved in CD4 T cell activation and Th1/Th2 differentiation.
- 3) *Howard Grey* (joyce_joseph@liai.org): Roles of peptides in positive selection; mechanisms of autoimmunity.
- 4) *Fu-Tong Liu* (ftliu@liai.org): Animal models of allergic inflammation in the skin; expression and function of galectins.
- 5) *Tomas Mustelin* (tomas_mustelin@liai.org): The function of tyrosine kinases and phosphatases in T cell activation.
- 6) *Carl Ware* (carl_ware@liai.org): Lymphotoxins and TNF cytokine-receptor systems: TRAF-dependent signaling pathways for apoptosis, and their disruption by viruses.

E-mail to P.I.s or send CV, summary of research interests and names of 3 references to:

Director, Human Resources (c/o P.I. applying to)
La Jolla Institute for Allergy and Immunology
 10355 Science Center Dr.
 San Diego, CA 92121
 Fax: 619-558-3525

DIRECTOR LABORATORY ANIMAL SCIENCES

SAIC Frederick, a division of Science Applications International Corporation and the world's largest employee-owned scientific, technical and engineering services company, is seeking an experienced professional to join our team at the NCI's Frederick Cancer Research & Development Center located in scenic Frederick, Maryland. **SAIC Frederick** manages the Operations and Technical Support contract for the NCI-FCRDC and functions as a contemporary biotechnology organization dedicated to developing knowledge and tools for the diagnosis, treatment and prevention of human cancer and AIDS.

We seek an experienced professional to perform in a leadership role as Director, Laboratory Animal Sciences Program (LASP). You will direct and manage a laboratory animal care program in support of 200 investigators at the NCI-FCRDC and the NIH Bethesda campuses, housed in 19 self-contained animal facilities (AAALAC accredited) of 70,000 total square feet with an average daily inventory of 85,000 animals.

Areas of responsibility:

- laboratory animal medicine
- animal health diagnostic laboratory
- animal holding and technical support
- receiving and quarantine

You will also manage and scientifically interact with those researchers heading existing core facilities in transgenic and gene targeting technologies. In addition, you will manage an established histopathology lab as well as a facility for the cryopreservation of rodent germ cells and embryos that is under development.

This position is responsible for an incumbent scientific, technical and administrative staff of 170 employees with a budget of \$9.6 million.

Candidate must possess an appropriate doctoral degree (PhD or DVM/VMD) or equivalent experience with upper management expertise in directing and administering a large, multi-disciplined laboratory animal research support program. Track record of scientific achievement and high quality publications in animal research is highly desirable, particularly as it pertains to oversight of emerging technologies.

You will work in a campus-like environment in Frederick, MD, near Baltimore and Washington, DC. **SAIC Frederick** offers a salary commensurate with credentials and an attractive fringe benefits program, including insurances, 401(k) savings plan, stock purchase programs, relocation assistance and more.

For consideration, forward CV, bibliography, references and salary requirements to: The Executive Search Committee, c/o Barbara J. Norton-Gill, **SAIC Frederick**, NCI-FCRDC, PO Box B, Frederick, MD 21702-1201; e-mail: hr@mail.ncifcrf.gov. Applications will be accepted through January 31, 1998.

EOE, M/F/D/V.

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Director, MR Imaging Research

Albert Einstein College of Medicine

The Albert Einstein College of Medicine of Yeshiva University is seeking a qualified individual to direct its research program in biologic magnetic resonance imaging and spectroscopy. The successful candidate will assume the leadership role in the continued planning and development of Einstein's MR research program, including magnet selection and site planning to meet already identified and future MR research requirements.

Qualifications for this position include an earned doctorate in a field related to MR imaging and significant involvement with MR imaging research in animals or humans or both. Experience in preparing grant applications and current or prior research grant support are highly desirable. Salary and academic appointment in the appropriate clinical and/or basic science department(s) will be based on qualifications of the selected individual.

A letter of interest and curriculum vitae should be forwarded by March 31, 1998 to the Chair of the Search Committee:

E. Stephen Amis, Jr., M.D.
Professor and Chair, Department of Radiology
The Albert Einstein College of Medicine
Jack and Pearl Resnick Campus
1300 Morris Park Avenue
Bronx, NY 10461
Attn: Julia Herrick, Belfer 312

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 ...and your career



Faculty Position

Department of Pathology

Program in Developmental Biology

Baylor College of Medicine

The Department of Pathology and the Program in Developmental Biology invites applications for a tenure-track faculty position at the **Assistant or Associate Professor** level. The candidate is expected to maintain an independent, nationally funded research program in developmental biology that complements the broad scientific interests within the Department of Pathology. Current areas of investigation within the Department include cardiovascular development, *Drosophila* and mouse development, human genetic disease, protein trafficking, and developmental regulation of RNA splicing. Candidates should hold a Ph.D., M.D., or both and have postdoctoral experience. Generous start-up funds are available to the successful applicant. Additional information may be found at the web-sites for the Department of Pathology (www.bcm.tmc.edu/pathology/db/) and the Program in Developmental Biology (www.bcm.tmc.edu/db/).

A letter of application with curriculum vitae, statement of research objectives, reprints of two or three publications, and contact information for three referees should be sent to:

Chairman of Faculty Search Committee
Department of Pathology
Baylor College of Medicine
Houston, TX 77030

*Baylor College of Medicine is an Equal Opportunity/
 Affirmative Action/Equal Access Employer.*



Howard M. Temin Chair for Cancer Research

An endowed Professorship has been established to honor the late **Dr. Howard M. Temin** who contributed profoundly to cancer research. We are seeking candidates who, in the manner of Dr. Temin, are committed to cancer research, and who will continue to provide seminal insights into the origins and prevention of human cancer. We seek in particular senior-level scientists expert in cancer virology and genetics, as was Dr. Temin. Please submit a curriculum vitae, publication list, and a 2-3 page statement of research accomplishments and future objectives. Review of the applications will begin on February 1, 1998.

Applications should be sent to:
Dr. Bill Sugden, Chair, Search Committee
McArdle Laboratory for Cancer Research
University of Wisconsin
1400 University Avenue
Madison, WI 53706-1599

For additional information, e-mail
hmteminchair@oncology.wisc.edu

*The University of Wisconsin is an Equal Opportunity/
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Wisconsin State laws permit public access to names, addresses, and occupations of applicants.

ANNOUNCEMENT

ANNOUNCING.....

THE CHILDREN'S BRITTLE BONE

FOUNDATION RESEARCH CHALLENGE!

The Children's Brittle Bone Foundation (CBBF) invites grant applications for basic and/or clinical research projects to develop novel strategies for treatment of osteogenesis imperfecta (OI) or into areas of research which may yield novel insights into the biology of OI.

ELIGIBILITY REQUIREMENTS:

Applications may be submitted by domestic and foreign, non-profit and for-profit, public and private organizations. Applications from minority individuals and women are encouraged. Applicants should hold an MD and/or Ph.D. (or equivalent). It is expected most applicants will have established a successful record as an independent scientific investigator.

FUNDING MECHANISM:

The awards will provide up to \$100,000 per year in direct costs to the investigator, for up to three years. These funds may be used towards salary for the principal investigator, post-doctoral fellows and doctoral students, research assistants, or clinical co-ordinators. Funds may also be applied towards laboratory supplies, equipment, and animal expenses. If indirect costs are requested, they may not exceed 10% of the direct costs per year.

Applications are to be submitted to the CBBF OI Treatment Challenge using the CBBF challenge application forms (available December 1, 1997).

Application kits are available from:

Children's Brittle Bone Foundation
 PO Box 27
 Highland Park, IL 60035
 Fax (847) 433-4982

The completed original application must be delivered to this address by March 1, 1998.

INQUIRIES:

Direct inquiries to:
 Dr. Matthew Breyer, MD
 Vanderbilt University Medical School
 Division of Nephrology
 S-3223 MCN
 Nashville, TN 37232
 e-mail: Matthew.Breyer@mcmail.vanderbilt.edu
 fax: (615) 343-4704
 phone: (615) 343-9867
 or
 Dr. Philip McCabe
 University of Miami
 Department of Psychology
 P.O. Box 248185
 Coral Gables, FL 33124
 e-mail: pmccabe@umiami.ir.miami.edu
 phone: (305) 284-4186

Note! The CBBF continues to offer two career development CBBF Fellowship Awards (\$50,000/year each for 2 years). The application deadline for this award is January 15, 1998. Further information for this award may be obtained from the same address.



CHILDREN'S BRITTLE BONE FOUNDATION

Wyeth-Lederle
Vaccines and
Pediatrics
(WLVP),
a member of
the Wyeth-
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internationally
as a leader in
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development
and
manufacture
of vaccines
for
prevention of
viral and
bacterial
diseases. We
currently
have the
following
immediate
opportunities
at our Pearl
River, NY
location.

RESEARCH & DEVELOPMENT

VIRAL VACCINE RESEARCH

Research Scientists (2 Positions)

- The position will study virus-host cell interactions. Requires a Ph.D. with 2-6 years postdoctoral experience and training in cell biology, biochemistry and molecular biology. Experience in receptor characterization is desired.
- The position in viral vaccine research requires a Ph.D. with 2-6 years postdoctoral experience and training in virology (gastrointestinal, genitourinary or respiratory tract pathogens) and molecular biology. Experience in vaccines research is a plus.

PROJECT MANAGEMENT

Portfolio Resource Manager

This position will maintain a database of R&D portfolio resource requirements and functional area capacities by interacting with Functional Area Managers and Project Managers. This database will be analyzed to identify potential resource constraints. These analyses will be performed to support the decision making process for the R&D portfolio for new products.

The position requires an MS or Ph.D. with a minimum of 5 years vaccine industry experience to include vaccine development process experience. Strong computer skills with an expertise in "Microsoft Access" preferred.

MOLECULAR IMMUNOLOGY

Associate Research Scientist

This position will conduct quantitative PCR analysis of immunoregulatory gene products and construction of plasmid expression vectors for novel vaccine candidates. Will perform PCR, cDNA synthesis and cloning, RNA and DNA purification and analysis.

The position requires a BS in Biology/Molecular Biology, MS preferred, with 8 years related experience. General computer literacy including computer based DNA sequence analysis is required. Experience with standard cell culture, isolation and transfection methods, automated DNA sequencing, library construction and screening or ELISA is a plus. Excellent verbal and written communication skills also required.

We offer competitive compensation and benefits, including a Savings Plan. If you wish to be considered for one of these outstanding opportunities, please send your resume including salary history, and indicate position of interest, to: **Wyeth-Lederle Vaccines and Pediatrics, Human Resources, 401 No. Middletown Road- #140/402, Pearl River, New York 10965. Principals Only** Please. An Equal Opportunity Employer.



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Mechanisms of Vascular Disease Training Program

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Growth factors in vascular biology
Molecular biology of the vascular system
Biology of the extracellular matrix of vascular cells
Chemistry and enzymology of blood proteins
Clinical research related to vascular disease
Lipid metabolism and lipoproteins

Contact: Dr. Richard Hoover

Vanderbilt University School of Medicine, Department of Pathology
Nashville, Tennessee 37232-2561
(615) 322-2102 Fax (615) 343-7023

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Cato Research Ltd. (CRL),

is a contract research organization with locations in Research Triangle Park, NC, Washington, DC, and Montreal, Canada. CRL engages in the planning and execution of regulatory strategy for pharmaceutical and biological product development. Our goal is to assist clients in developing and gaining regulatory approval for products in conventional and cutting-edge therapeutic areas and novel drug delivery technologies.

Our company has exciting non-laboratory opportunities at all corporate locations for self-starters with scientific backgrounds who want to learn and grow in a creative environment. These positions require excellent written and verbal communication skills, strong initiative and interpersonal abilities, and sound critical and analytical thinking. All positions require an M.D. or Ph.D. with expertise in toxicology, pharmacokinetics, infectious disease, immunology, oncology, pharmacology or other biological sciences.

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We are seeking individuals with clinical and scientific training to provide leadership in ensuring that client contracts are met. These opportunities require the ability to design, direct, coordinate and manage drug development and regulatory activities. The ideal candidates will have 5-8 years of experience in the pharmaceutical or biotech industry and knowledge of the entire drug development process.

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The Fellows receive training in the scientific, regulatory, medical and financial aspects of pharmaceutical drug development. The ideal candidates will possess a Ph.D. in Biological Sciences and the ability to manage multiple tasks.

If you are an excellent communicator and a team player with problem-solving skills, and wish to expand your career, you will find these opportunities challenging and professionally rewarding.

Cato Research Ltd. offers complete salary and benefits packages. For application to all CRL offices, please send your resume, cover letter and writing sample to: **Job 200, Cato Research Ltd., 200 Westpark Corp. Ctr., 4364 S. Alston Ave., Durham, NC 27713-2280.** No phone calls, please. EOE

CATO www.cato.com



DEPARTMENT OF ZOOLOGY

The Department of Zoology at the University of Guelph invites applications for a tenure track position at the Assistant Professor level. The Department seeks the appointment of an experimental ecologist with strong skills in biostatistics. The Department has a particular, but not exclusive, interest in individuals with a background in fisheries science or aquatic communities, especially in the arctic. The successful applicant will have a strong record of achievement in research and will be expected to develop and sustain an externally funded program that involves the training of graduate students. Undergraduate teaching responsibilities will focus on areas of quantitative biology, including experimental design, and the application of statistics to biological problems. A Ph.D. and postdoctoral experience are required. The expected starting date is July 1, 1998.

Applications, including a curriculum vitae, and brief (< 4 pages) summary of research and teaching interests, as well as copies of up to three papers should be sent to: **Dr. Paul Hebert, Chair, Department of Zoology, University of Guelph, Guelph, Ontario, Canada, N1G 2W1.** Applicants should also arrange for three letters of reference to be sent by the closing date of **February 28, 1998.** For additional information on the Department of Zoology see: <http://www.uoguelph.ca/zoology>.

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. This appointment is subject to final budgetary approval.

The University of Guelph is committed to an employment equity program that includes special measures to achieve diversity among its faculty and staff. We therefore particularly encourage applications from qualified aboriginal Canadians, persons with disabilities, members of visible minorities and women.

UNIVERSITY OF GUELPH

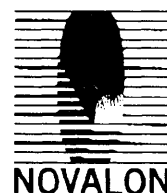
MAYO CLINIC

The computer-aided molecular design (CAMD) lab at the Mayo Cancer Center/Pharmacology Department at Mayo Clinic Rochester seeks a research fellow with a Ph.D. in computational chemistry, organic chemistry, or related discipline to conduct design and computational screening of enzyme inhibitors.

The Mayo Clinic, with a research budget in excess of \$130 million per year, provides an outstanding environment for the conduct of basic research in molecular medicine. The CAMD Lab has records of developing biologically active ligands with real world impact (e.g., we developed the highly potent and selective, low-cost bis-THA, AChE inhibitor, which was reported by C & E News, News of the Week Section, September 30, 1996, and has been brought to commercial market by RBI/Sigma.) Resources include: NMR, mass spectrometry, fluorescence, research computing, and other core facilities; the state-of-the-art synthetic equipment; Origin 2000 (8xR10K, 2Gb memory and 72Gb disk), 3 Origin 200 (6xR10K, 896Mb memory and 13.5 Gb disk) and Octane (2xR10K, 128Mb and 4Gb disk) and three shared Power Challenge servers. Salary and benefits are competitive. Applicants contact:

Yuan-Ping Pang, Ph.D.
Department of Pharmacology
Mayo Clinic
200 First Street SW
Rochester, MN 55905
pang@mayo.edu

Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator.



NOVALON

Pharmaceutical Corporation is focused on the development and application of novel technologies

to screen genomic drug targets and accelerate lead discovery. Located in Research Triangle Park, NC, Novalon offers many exciting career opportunities.

Director, Discovery Sciences:

Ph.D. with 6-10 years industry experience in biomolecular, high throughput screening to lead a group of 12 scientists within our drug discovery program. Knowledge of automation and database management will be a plus.

Director, Licensing:

An individual with 2-5 years experience to manage the technology and intellectual property portfolio of the company including review and management of patent prosecution.

Senior Scientists, Discovery Sciences:

Ph.D. molecular and cellular biologists with 3-5 years industry or academic experience in eukaryotic protein expression, genomics, and bioinformatics.

Postdoctoral Associate:

Ph.D. experienced in peptide and protein chemistry to work with Novalon's collaborators at the University of North Carolina.

Scientific Associates:

M.S./B.S. scientists with 2 or more years postgraduate experience in molecular biology, biochemistry, cell biology, DNA sequencing, synthetic chemistry, and bioinformatics.

Make a difference! Join a dynamic, team-oriented company where your talents can flourish. All positions provide a competitive salary, participation in health care, equity compensation, and 401(k) retirement plans. Please mail your résumé with your salary history/requirements and clear indication of position of interest to:

Staffing Manager, P.O. Box 569, Chapel Hill, NC 27514-0569 or e-mail to: jobs@novalon.com

(Paste/type in résumé first with cover letter at the end. No file attachments please!)

OSI Pharmaceuticals, Inc. is an integrated drug discovery company with a mission to discover and develop novel pharmaceutical products. We have combined sophisticated molecular biology with industry pioneering robotics to become the leader in the field of small molecule drug discovery by automated high-throughput screening.

Drug Discovery Opportunities

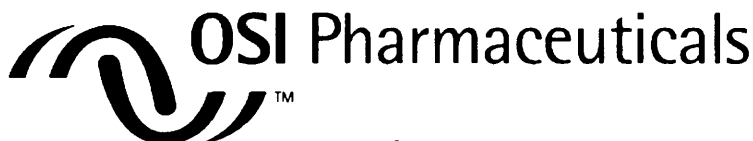
• Cancer

This scientist must have a strong academic or industry background in research into the molecular basis of cancer. The scientist will be a key member of a team that will design multiple assays for the identification and development of novel drugs for cancer. As part of a multi-disciplinary drug discovery effort, the individual will directly supervise one or more research associates; and communicate with external collaborators (i.e. large pharmaceutical companies, leading academic and industrial research groups). This position requires a Ph.D. and relevant post-doctoral experience in molecular biology and cancer. Additional experience in cell biology, cell cycle, and apoptosis is preferred.

• Engineering

This career opportunity is for a Systems Specialist with experience in applications programming and robotics systems design and engineering. Requirements include: design, integration, troubleshooting, programming and performance evaluation of highly automated new drug discovery systems. You will play a key role in a top-flight HTS lab to devise procedures and flowcharts, develop code, test and debug routines, maintain systems integrity through continuous improvement, validate documents and procedures and help champion new technologies. Requirements include a Bachelor's degree or higher in a relevant area with 2-8 years of industrial experience. The ideal candidate will have prior experience with Zymark systems in a bioassay lab, as well as excellent communication skills.

OSI Pharmaceuticals offers a superb benefits package and opportunities for career development in a highly participative environment. Qualified candidates may send resumes (please specify the position of interest) to: **Director, Human Resources, OSI Pharmaceuticals, Inc., 106 Charles Lindbergh Blvd., Uniondale, NY 11553; Fax (516) 222-0114; e-mail: employment@osip.com. Equal Opportunity Employer M/F/D/V.**



www.osip.com

ONCOLOGY MEDICAL ASSOCIATES

SmithKline Beecham is a \$12.4 billion global pharmaceutical and healthcare company. Our world-famous products and reputation mean unsurpassed opportunities for individuals to combine their scientific and marketing expertise as Oncology Medical Associates.

In anticipation of FDA approval of SmithKline Beecham's latest breakthrough in cancer therapeutics, we are seeking individuals to complement a nationwide sales force of highly skilled professionals. Because oncology is different from other areas of healthcare, it is necessary that qualifying candidates possess a high degree of empathy and flexibility. Among their responsibilities, selected candidates will develop business plans, maximize customer rapport, create effective presentations, coordinate educational symposia, maintain a technical database, and create an environment where customers share SmithKline Beecham's mission to improve healthcare.

Candidates should have at least 6 years' relevant experience in a clinical, academic or business setting, a PharmD or PhD in Pharmacology or related scientific discipline, and expert knowledge of oncology and the changing medical environment. Positions are available in Southern California and Arizona. 40-50% travel is required.

We offer one of the best compensation packages — including a car — in the industry. If you'd like to be part of our success, please send your scannable resume (no folding, staples or graphics) to: SmithKline Beecham, Job Code ONCG53A, P.O. Box 298, Postal Annex, 6963 Douglas Blvd., Granite Bay, CA 95746. For more information on SmithKline Beecham, visit our Web site at www.sb.com/careers. We are an Equal Opportunity Employer, M/F/D/V.



SmithKline Beecham

ASSOCIATE DIRECTOR COMPARATIVE MEDICINE

National Center for Research Resources
National Institutes of Health

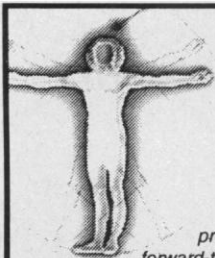
The National Center for Research Resources (NCRR) is seeking applicants for the position of Associate Director Comparative Medicine, National Center for Research Resources. This position is located in Bethesda, Maryland, and is a permanent full-time position with a salary range of \$103,897 to \$123,100 per annum commensurate with qualifications. Physicians may be eligible for Physician Comparability Allowance ranging from \$5,000 to \$20,000 per year.

A recruitment bonus of up to 25 percent of base pay may be available to a non-federal selectee for this position. A relocation bonus of up to 25 percent of base pay (subject to approval) may be available to a permanent Federal employee who must relocate to accept this position. A one year probationary period must be served by the individual selected if not currently or previously in the Senior Executive Service.

The Associate Director for Comparative Medicine, NCRR, manages a broad research and resources area related to Laboratory Animal Sciences, AIDS Animal Models, Regional Primate Research Centers, and Biological Models and Materials Resources. These programs provide support for sophisticated mammalian and non-mammalian resources, genetic repositories for animals, both vertebrate and invertebrate, microorganisms and cells. The program also supports post-doctoral training and career development for veterinarians. The ADCM has a continuing responsibility to match the Comparative Medicine area's research and resource scope and content with the needs of the biomedical research community, especially for investigators supported by other NIH components. This responsibility involves a multifaceted portfolio of sponsored activities which includes Regional Primate Research Centers, mammalian and non-mammalian model development, special types of research animal colony development and support, national repositories for induced mutants for rodents and other organisms as well as nonhuman primate breeding and research projects. The ADCM must provide the national scientific leadership for the planning, formulation, program review, development and evaluation of all activities which are encompassed by this area. Applicants for this Senior Executive Service position must have a Doctor of Veterinary Medicine or a Ph.D. in one of the health sciences (or equivalent combination of experience and training). Send applications to: Ms. Pathenia Wiggins, National Institutes of Health, National Center for Research Resources (NCRR), 9000 Rockville Pike, Building 31, Room 3B43, Bethesda, MD 20892. For application forms and a copy of the requirements contact Ms. Wiggins at NCRR on (301) 496-1524. Deadline for applications is March 15, 1998.

Public Health Service Commissioned Officers interested in performing the duties of the position within the Commissioned Corps may submit a resume to the above address.

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Senior Scientists/ Group Leaders

Located in South San Francisco, **Advanced Medicine, Inc.** is a progressive, venture-backed biopharmaceutical start-up led by experienced, forward-thinking management & advisors from the top ranks of the healthcare, academic, and business communities. We are dedicated to the discovery & development of novel therapeutic drugs and approaches, and currently have an unparalleled opportunity for two productive, highly talented scientists to play a vital role in our growth & success.

ANTI-INFECTIVES • The position requires a Ph.D. or M.D. in microbiology, infectious diseases or related field. The ideal candidate will have strong academic training in bacteriology, virology, or mycology along with 5 years' pre-clinical drug evaluation and research experience. (Job# SCI1219-AIF)

ANTI-ADHESION • The position requires a Ph.D. in cell biology or related field. The ideal candidate will have strong academic training in cell-cell adhesion, preferably in the immunology or cardiovascular fields, along with 5 years' pre-clinical drug evaluation and research experience. (Job# SCI1219-AAD)

Both positions require a proven record of success, preferably in the industrial sector. Applicants must be willing and able to lead a project team engaged in the in vitro and in vivo evaluation of drugs. In addition to leading a small group (initially 1-2 research associates), these Group Leaders will also be responsible for both the scientific vision and experimental implementation of projects. Truly outstanding individuals at earlier stages in their careers will also be considered.

In addition to attractive compensation & benefits, we'll provide you with a scientifically challenging & rewarding environment, a pathway for personal and professional growth, and significant equity participation. Please forward your resume with references and cover letter to: **Advanced Medicine, HR Department, (Attn: Job#), 270B Littlefield Avenue, South San Francisco, CA 94080; Fax: (415) 827-8690. EOE**

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Faculty Positions in GI/Molecular Nutrition

The Committee on Human Nutrition at the University of Chicago invites applications for faculty positions as part of a programmatic expansion in the area of Molecular Nutrition. Appointments will be made at the Instructor or Assistant Professor level, but applications from more senior faculty will certainly be entertained. Applications are sought from well trained individuals with demonstrated potential to develop a strong extramurally funded research program.

The Committee on Human Nutrition maintains a distinct program of graduate study and has a faculty base with strong research interests directly connected to an NIH-supported Clinical Nutrition Research Unit, an NIH-supported Digestive Disease Research Center as well as training grant support mechanisms. Interests of the research faculty include the molecular regulation of adipocyte differentiation and cell fate determination, molecular regulation of mammalian apoB mRNA editing, molecular genetics of human lipoprotein transport mechanisms, molecular regulation of hexose transport and glucose utilization, susceptibility genes in type I and II diabetes mellitus, the regulation of vitamin D transport and molecular mechanisms of colon carcinogenesis.

We seek applications from individuals using the tools of contemporary molecular biology to approach important questions in GI/Molecular Nutrition. Such areas include, but are not confined to, nutrient regulation of gene expression, neuroendocrinology of appetite control, genetic control of nutrient metabolism and intestinal nutrient transport. Generous start-up support and state-of-the-art laboratory space will be available, together with access to departmental and institutional core facilities.

Applicants should submit a curriculum vitae, selected reprints, a description of research interests and career goals, together with the names, addresses, and FAX numbers of three references, to:

Dr. Nicholas Davidson
Chairman, Committee on Human Nutrition
University of Chicago, MC 4076
5841 S. Maryland Avenue
Chicago, IL 60637

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**THE UNIVERSITY
OF CHICAGO**

The Science of Agricultural Genetics

SENIOR RESEARCH ASSOCIATE

(Job #QT-805)

Protein, Engineering

This person will be responsible for conducting experiments and contributing to research efforts to establish and apply technologies in protein engineering for product development. Responsibilities include the application of recently developed techniques in molecular evolution of proteins. The successful candidate is expected to work closely with other researchers in the department, contribute to ongoing research projects, carry out assigned experiments and resolve technical problems independently.

EDUCATION/EXPERIENCE. An M.S. degree in the biological sciences or equivalent plus at least 3 years of directly related experience using modern molecular biology/protein biochemistry techniques in solving biological problems. Experience in independent design and execution of experiments is desirable. Must have experience in molecular cloning techniques, PCR, construction/screening of recombinant DNA libraries and be familiar with techniques in immunochemistry and enzyme assays. Strong computer skills desired in standard office software and relevant gene analysis software. The candidate should also possess strong integrity and excellent communication/interpersonal skills.

POST-DOCTORAL RESEARCH

ASSOCIATE (Job # QT-804)

Proteomics

The person will be responsible for conducting experiments and contributing to research efforts to identify and characterize protein expression profiles as a measure of gene expression. The successful candidate will apply technologies in 'proteomics' such as 2-D gel electrophoresis and mass spectroscopy to map protein expression profiles, isolate and characterize proteins, establish data bases and cross correlate to the genome data base. The individual will work closely with the supervisor and other participating members of the research group in the development of experimental strategies.

EDUCATION/EXPERIENCE. A Ph.D. in biochemistry with experience in protein isolation/characterization, sequencing, immunoblotting techniques and familiarity with in vitro transcription/translation techniques. Prior experience with 2D-gels, mass spectroscopy and investigation of post-translational modifications will be considered a plus. Excellent interpersonal skills, high motivation level and ability to work in a team environment are essential. Innovation and creativity are a must.

Pioneer Hi-Bred International, Inc. offers an opportunity to interact among hundreds of scientists with diverse backgrounds. We offer competitive salaries and excellent, comprehensive benefits. Des Moines is a prospering heartland city that ranks well above the national averages in affordability and education. Our location provides a mix of beautiful open spaces and city life advantages. For confidential consideration send 3 copies of your current resume and cover letter indicating job number by January 9, 1997 to: Pioneer Hi-Bred International, Inc., Attn: PERSONNEL (Job #QT-805 or #QT-804), P.O. Box 1004, Johnston, IA 50131-1004.

Pioneer Hi-Bred International, Inc., is the world leader in agricultural genetics. Founded in 1926, we are a publicly held company that invests more than \$160 million in research and product development. Pioneer® brand products are grown in almost every crop producing continent in the world. At our headquarters in Des Moines, Iowa, we're adding to our Research team.



**PIONEER HI-BRED
INTERNATIONAL, INC.**

An Equal Opportunity Employer

Dean of the College of Arts and Sciences State University of New York at Buffalo

The State University of New York at Buffalo, a Research I university with elected membership in the Association of American Universities, invites nominations and applications for the position of Dean of its new College of Arts & Sciences. As chief executive officer of the College, the Dean reports directly to the Provost.

CAS is the largest division of the University at Buffalo, being an amalgamation of the three former faculties of Arts & Letters, Natural Sciences and Mathematics, and Social Sciences. The Dean is responsible for academic, administrative, and fiscal leadership of the college consisting of B.A., M.A., and Ph.D. programs with a current budget of over \$50 million, 456 faculty FTE, 7,540 undergraduate students, 1,873 graduate students, 28 departments, and a variety of interdisciplinary programs and centers.

The Dean will work closely with University groups designing the internal structure of the new college and its relationships with other units of the University and the community. For that reason, the search committee is especially interested in candidates with vision, energy, and the ability to work in a condition of ongoing change and challenge with faculty committed to the idea of shared governance.

Preferred candidates will:

- Have an earned doctorate or equivalent and be established scholars of international repute with a record of teaching, scholarly achievement, and service that would make them eligible for a senior appointment in one of the College's departments.
- Have at least three years administrative experience in higher education above the department level including fiscal management.
- Have an understanding of emerging issues in education and research; an appreciation of the crucial missions of the Arts & Sciences in a large and complex university with a full spectrum of professional schools; have a commitment to the university's responsibility to promote Equal Opportunity and Affirmative Action; and have the ability to work creatively with faculty, staff, and students as well as with other units of the university, with alumni and with the local community.
- Have excellent communication skills, have demonstrated administrative, public relations, and policy formulation ability; and have a commitment to high standards of scholarship, teaching, and service.
- Appreciate and support the diverse missions of the College's arts, humanities, natural science, and social sciences disciplines, and the cross- and multidisciplinary programs and efforts that evolve from the interactions among arts and sciences faculty and faculty in the professional schools.

Compensation will be commensurate with experience. The preferred starting date is August 1, 1998, or before. Review of applicants will begin January 1, 1998, and will continue until the position is filled. Applicants should submit a résumé, four references (names, addresses, telephone and fax numbers and, if available, e-mail addresses), as well as a letter outlining their views of the position and their qualifications for it. The committee also welcomes nominations from third parties. These should be sent to:

Louis J. Goldberg, D.D.S., Ph.D.
Chair, College of Arts & Sciences Dean Search, SUNY at Buffalo, 325 Squire Hall, Buffalo, NY 14214-3008
E-mail: Louis_Goldberg@sdm.buffalo.edu

The University at Buffalo is an Equal Opportunity/Affirmative Action Employer. For further information about the University at Buffalo, visit our website at <http://www.buffalo.edu>.



National Center for Genome Resources

Due to our rapid growth in the fields of bioinformatics and agricultural genomics, NCGR in Santa Fe, New Mexico, is seeking the following individuals:

Agricultural Genomics Group Leader

Highly motivated agricultural scientist needed to assist in developing and managing a team focused on a major national and international effort in agricultural genomics. Will work with experienced database and software development staff in implementing NCGR's growing agricultural genomics program. Required: Ph.D. and relevant post-doctoral experience. Desirable: first-hand experience in managing genomic projects or genomic data; experience with agribusiness.

Biological Interface Technologist

GUI expert needed to assist in developing our major effort in agricultural genomics. Will develop interfaces for biologists to access varied types of data in an integrated manner. Required: 3-5 years experience in visualization technologies. Desirable: experience in developing tools for genomic or biological projects, and ability to rapidly integrate with the team and deliver specified products.

Senior Scientist

Will build and manage a diverse team of biologists and biochemists to interact with experienced database and software development groups and be a key contributor to strategy and bioinformatics design in agricultural genomics systems. Required: Ph.D. in molecular biology, genetics or related field; broad understanding of and experience in gene expression; molecular diagnostics or biochemistry; demonstrated successes in management and team development; laboratory experience. Desirable: experience with relational database curation and user support.

Computational Biologists

Will design, develop and implement algorithms and software systems for translating and integrating genomic data into information useful to bench biologists, chemists and others. Required: Ph.D. in related field or demonstrated skills in algorithm development; broad understanding of, and experience in, bioinformatics (acquisition, storage, and analysis of biological data); comprehensive knowledge of genomics, including DNA sequencing; experience with database curation and user support; knowledge of SQL; excellent communication skills.

Scientists

Will analyze data from agricultural genomic projects. Required: Ph.D. (or equivalent work experience) in a life science-related discipline, with an emphasis in genetics and/or molecular biology, especially in agricultural systems; experience with relational databases; ability to conceptualize algorithmic solutions to database-related problems and to design laboratory experiments in genomics. Desirable: ability to use sequence analysis tools and ability to write small program scripts.

To find out more about NCGR, you may access our home page at www.ncgr.org.

E-mail to: hr@ncgr.org
(in ascii or postscript format)
via fax to: 1-505-995-4461
via mail to: NCGR
1800-A Old Pecos Trail
Santa Fe, NM 87505 EOE.

POSITIONS OPEN

TENURE-TRACK POSITION IN ASTRONOMY AND ASTROPHYSICS AMERICAN MUSEUM OF NATURAL HISTORY

The American Museum of Natural History in New York City, a leading scientific research institution, is re-establishing a Department in Astronomy and Astrophysics in tandem with its renowned and newly reconstructed Hayden Planetarium. Over the next two years, we expect to make two tenure-track research staff appointments at the JUNIOR and SENIOR level in any specialty. Applicants must have a Ph.D. in astronomy or a related field. This initial hiring is part of a larger goal of building and maintaining a significant research presence in astrophysics at the Museum with the expectation that the successful candidate will have a broad base of interests. Successful applicants are expected to have demonstrated exceptional accomplishments that include a strong publication record and the ability to compete for major grants and/or telescope time. Successful applicants will also be expected to participate in the innovative outreach efforts of the new Hayden Planetarium, which will include, but are not limited to, writing for the public, developing content for sky shows and exhibits, and working with scientific visualizers. The Museum's Department has an up-to-date research library and will soon acquire an SGI Onyx mini-supercomputer equipped with an Infinite Reality graphics engine for the scientific visualization of large databases.

Links to Columbia and Princeton Universities exist (through adjunct appointments, joint grants, and shared graduate students) and such links will be encouraged among the successful applicants. We request a curriculum vitae, written statements on research goals and on interest in educational outreach, and the names of three references. Compensation will be commensurate with rank and accomplishments of the candidate. Screening of applicants will begin January 20, and continue through March 1, 1998. Please submit all materials to: **Astronomy and Astrophysics Search Committee, c/o Francine Oliver, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024.** For further information contact: **Dr. Neil D. Tyson, Telephone: 212-769-5912; e-mail: tyson@astro.amnh.org.** *The American Museum of Natural History is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

FACULTY POSITIONS UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER

Immediate openings for **SENIOR TENURED** or **JUNIOR TENURE-TRACK** positions in an interdepartmental Molecular Medicine Program. Rank will be commensurate with ability and experience. The appointments will be in one of the basic science departments. The laboratories for the Program are housed in a new building that contains approximately 80,000 square feet of modern research space. Core facilities for tissue culture, media preparation, DNA sequencing and synthesis, digital imaging microscopy, peptide synthesis, fluorescence-activated cell sorting, and transgenic mice are available. The position will be highly competitive with regard to start-up funds, laboratory space, and salary.

The Program seeks individuals of outstanding research potential in the broadly defined areas of structural, molecular, cell, or developmental biology. Applicants should send a curriculum vitae, statement of research interests, and names of three references to: **Dr. Michael P. Czech, Director, Program in Molecular Medicine** or either of the **Search Committee Co-Chairmen, Dr. Michael R. Green and Dr. Roger J. Davis, University of Massachusetts Medical Center, 373 Plantation Street, Worcester, MA 01605.**

An Equal Opportunity/Affirmative Action Employer.

Auburn University is seeking applications for the position of **DEAN, COLLEGE OF AGRICULTURE** and **DIRECTOR, ALABAMA AGRICULTURAL EXPERIMENT STATION.** Consideration of applications will begin February 1, 1998, and will continue until a candidate is selected and recommended for appointment. For more information contact: **Emmett F. Thompson, Search Committee Chair, School of Forestry, Auburn University, AL 36849-5418. Telephone: 334-844-1007; FAX: 334-844-1084; e-mail: thomps@forestry.auburn.edu.** *Auburn University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

POSITIONS OPEN

FACULTY POSITION ANIMAL VIROLOGIST University of Maryland, College Park

The Department of Microbiology invites applications for a **TENURE-TRACK** faculty position in animal virology from qualified individuals at any rank. Areas of interest may include, but are not limited to, viral pathogenesis, virus-receptor interactions, and virus-induced cell death; proposed research should complement existing departmental strengths in immunology and/or cell and molecular biology. Appointment includes a highly competitive package consisting of generous start-up funds, newly renovated laboratory space, and access to state-of-the-art core facilities. An outstanding research record and solid history of generating research support is a prerequisite for an appointment at the senior level. Teaching responsibilities include participation in our undergraduate and graduate programs. Applicants should send curriculum vitae, a statement of current and future research interests, copies of three to five representative publications, and should arrange for three letters of reference to be sent to: **Dr. E. Gantt, Chair of the Search Committee, Department of Microbiology, University of Maryland, College Park, MD 20742.** *The University of Maryland is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.*

CHAIR AND PROFESSOR OF BIOLOGY UNIVERSITY OF MARYLAND

The College of Life Sciences at the University of Maryland, College Park, invites applications for the position of Professor and Chair of the new Department of Biology. This Department consists of 35 tenure-track faculty (formerly from the Departments of Zoology and Plant Biology) and four full-time instructors with research and teaching interests in behavior, cell biology, developmental biology, ecology, evolution, genetics, neurobiology, and physiology. The Department is a key participant in the undergraduate Biological Sciences Program with 2,000 majors. We seek an individual to provide academic and administrative leadership of the teaching and research programs in this vibrant new department. The successful candidate will also be expected to continue his/her research program in their area of expertise. Candidates must have an earned doctorate in an appropriate area of biology and have internationally recognized academic accomplishments. Candidates should send a letter of application accompanied by a curriculum vitae to the address below. For best consideration, completed applications should be received by February 1, 1998. The earliest anticipated starting date for this position is July 1, 1998. Applications or nominations should be sent to: **Biology Chair Search Committee, College of Life Sciences, Room 1118 Symons Hall, University of Maryland, College Park, MD 20742-5815. Website: <http://www.life.umd.edu/biology>.**

The University of Maryland is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

FACULTY POSITION DEPARTMENT OF BIOLOGY KUTZTOWN UNIVERSITY

Tenure-track position at the **ASSISTANT PROFESSOR** level to begin in August 1998. **PLANT ECOLOGIST**, with a broad background in botany, and expertise in field research. Specialization in estuarine ecology and/or marine botany highly preferred. Teaching responsibilities will include non-majors introductory biology, and courses which are supportive of the B.S. biology, environmental science, and marine science programs. The candidate will be expected to involve undergraduates in research. Ph.D. and two years of college-level teaching experience required. Successful interview and demonstration of ability are also requisite qualifications. Send letter of application, teaching philosophy and research interests, and three letters of reference to: **Dr. Carol C. Mapes, Chair of the Search Committee, Biology Department, Kutztown University, Kutztown, PA 19530. FAX: 610-683-1352; e-mail: mapes@kutztown.edu.** Application deadline is January 23, 1998. *Kutztown University is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

TENURE-TRACK FACULTY POSITION LIFE TECHNOLOGIES PROFESSORSHIP CENTER FOR ADVANCED RESEARCH IN BIOTECHNOLOGY

The Center for Advanced Research in Biotechnology (CARB) invites applications for a tenure-track faculty position. We especially wish to recruit a candidate with research interests at the interface between chemistry and structural biology with a commitment to understanding the molecular basis of protein/nucleic acid, protein/protein, or small molecule/macromolecule interactions. Applicants using structural approaches in conjunction with chemical and/or recombinant DNA techniques to understand and manipulate the function of nucleic acids or proteins are especially encouraged to apply. The successful candidate will be expected to develop a strong, independent, externally funded research program.

CARB is a research center of the University of Maryland Biotechnology Institute and the National Institute of Standards and Technology (NIST) with strong programs in high field NMR spectroscopy, macromolecular crystallography, structural immunology, physical biochemistry, and computational chemistry. Review of applications will begin January 1, 1998. Applicants should submit a curriculum vitae, a statement of research plans, and three letters of reference sent to:

**Chair, LTI Faculty Search Committee
Center for Advanced Research in Biotechnology
University of Maryland Shady Grove Campus
9600 Gudelsky Drive
Rockville, MD 20850**

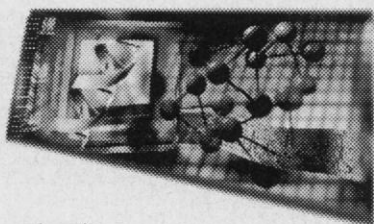
CARB is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

FACULTY POSITIONS IN ANIMAL PHYSIOLOGY AND APPLIED ECOLOGY

The Biology Department at the University of Colorado at Denver, with approximately 550 undergraduate majors and 25 Master's students, invites applications for two full-time, tenure-track appointments at the **ASSISTANT PROFESSOR** level, contingent upon budgetary approval. **ANIMAL PHYSIOLOGIST:** Area of specialization is open; teaching responsibilities (two courses per semester) include human physiology and courses in the applicant's specialty. **APPLIED ECOLOGIST:** Wetlands expertise preferred; teaching responsibilities (two courses per semester) include principles of ecology, environmental biology, and courses in the applicant's specialty. Applicants will be expected to establish an independent research program involving undergraduate and graduate students. Ph.D., teaching experience, and postdoctoral research experience are required for both positions. Send curriculum vitae, statements of research and teaching interests, and three letters of reference to: **Physiologist Search Committee or Ecologist Search Committee, Campus Box 171, P.O. Box 173364, Denver, CO 80217-3364.** Review of applications will begin on January 15, 1998, and continue until the positions are filled. The Colorado Open Records Act stipulates that applications are open records unless the applicant requests confidentiality in writing at the time of application. *The University of Colorado is an Equal Employment/Affirmative Action Employer.*

FACULTY/CURATOR POSITION IN ICHTHYOLOGY

The Scripps Institution of Oceanography, University of California, San Diego, invites applications for an **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** (tenure-track or tenured) in ichthyology. The successful candidate should have an established record or demonstrated potential in original research, preferably in the areas of systematics and evolutionary biology of marine fishes. In addition, he/she would teach a graduate-level course in biology of fishes, assume curatorship of the Scripps fish collection, and direct and support graduate students. Rank and salary will be commensurate with qualification and experience based on the University of California pay scale. A Ph.D. or equivalent degree is required. Send letter of application (including research interests, publications list, and résumé of curatorial and teaching experience) and the names and addresses of five potential referees to: **Chair, Ichthyology Search, Scripps Institution of Oceanography Graduate Department, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0208.** Closing date for applications is March 1, 1998. *University of California, San Diego is an Equal Opportunity/Affirmative Action Employer.*



Working on the molecular level to conquer, treat, or prevent debilitating diseases.

DRUG DISCOVERY RESEARCH AT SCHERING-PLOUGH

At the Schering-Plough Research Institute, insightful scientists are discovering innovative therapeutic agents that challenge humankind's most debilitating diseases. If you are seeking an opportunity to be on the cutting edge of exploratory pharmaceutical discovery, become part of an advanced multidisciplinary research group focused on chemical research.

SENIOR SCIENTIST Structural Chemistry Structure-Function Analysis

As a member of the Structural Chemistry Department, you will join a group of scientists working to develop protease inhibitors as antiviral agents. This will involve protein structure-function analysis, and kinetic characterization.

To qualify, you will need a PhD in Biochemistry, Biophysics or Molecular Biology and 1-6 years of experience in structure-function analysis emphasizing work with enzymes, kinetics and/or protein engineering.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to apply on-line at <http://www.sp-research.com> or send a scannable resume and cover letter, original copy only, referencing Dept. DD71-75-SW, to: Schering-Plough Research Institute, MS #1255, 2015 Galloping Hill Road, Kenilworth, NJ 07033-0539. We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.



Schering-Plough
Research Institute

Using Science for Human Advantage

Research Opportunities

Located in the San Francisco Bay Area, **COR Therapeutics, Inc.** is a publicly-held biopharmaceutical company focused on the discovery & development of novel therapeutics for the treatment of severe cardiovascular disease. Our continued growth has created an exciting opportunity for several motivated self-starters to join our expanding research & development team.

Senior Research Associate

Flow Cytometry

You will evaluate the functional role of a novel platelet protein. Requires a BS in biochemistry, chemistry, biology or related field and at least 5 years of lab experience, or an MS with 3 years' experience. The position also requires knowledge of cell biology & molecular biology, including Southern Analysis & PCR; technical skill with flow cytometry, particularly in applications for the evaluation of functional responses; statistical acumen; a basic understanding of protein purification particularly antibodies & biochemical analysis of proteins such as SDS-PAGE, Western blots, and immunoprecipitations; familiarity with Scatchard analysis & binding assays; and proficiency with Cellquest, Excel, FileMaker Pro and Cricket graph software. Blood handling & transfection experience desirable. (Job# 97095-SCI)

Senior Research Associate

Enzymology

You will evaluate the tissue distribution & enzymatic regulation of a key signaling enzyme. Requires a BS in biochemistry, chemistry, biology or related field & at least 5 years of lab experience, or an MS with 3 years' experience; the ability to identify/evaluate in vitro & in vivo enzyme activities; experience with protein purification from both recombinant expression systems & native tissues; knowledge of enzyme kinetics, assay development, protein chemistry, membrane preparation, binding assays, and molecular pharmacology; and familiarity with SDS-PAGE, Western blots, and immunoprecipitation. Experience with purification and characterization of enzymes from native & recombinant systems, and with biochemical characterization of antibodies is preferred. (Job# 97069-SCI)

Research Associate

DNA Sequencing

You will acquire DNA sequence and fill oligonucleotide orders for the research staff. In addition, you will run facilities, provide materials & data, and coordinate/interface with all users. Requires a BS in biochemistry, biology or related field & at least 3 years of lab experience or an MS with 1 year of experience. Knowledge of PE Applied Biosystem's 373A DNA Sequencer, 394 DNA/RNA Synthesizer, and related software is required. (Job# 97093-SCI)

Research Associates

Medicinal Chemistry

Several excellent opportunities exist for individuals with a previous record of accomplishment in the design & synthesis of novel small molecule agents and the development of proprietary compounds. These positions require a BS (MS desirable) in organic chemistry (preferably synthetic organic chemistry) and a minimum of 2 years of applicable experience in pharmaceutical drug discovery. Candidates must be well-versed in common synthetic laboratory practices & techniques such as carrying out multi-step reactions, purification by chromatography (column & HPLC), as well as NMR and IR interpretation/analysis. (Job# 97074-SCI)

COR Therapeutics, Inc. offers competitive salaries & benefits, attractive equity positions and the opportunity to make significant research contributions. To apply, please send resume & salary history to: COR Therapeutics, Inc., Human Resources, (Attn: Job#), 256 East Grand Ave, South San Francisco, CA 94080; Fax: (415) 244-9208; Email: hr@corr.com. COR is an equal opportunity employer.

COR

COR THERAPEUTICS, INC.

POSITIONS OPEN

FACULTY POSITIONS SAVANNAH RIVER ECOLOGY LABORATORY Ecotoxicology Environmental Microbiology Molecular Ecological Genetics Surface Water Hydrology

The University of Georgia's Savannah River Ecology Laboratory (SREL) invites applications for two research faculty positions (ASSISTANT, ASSOCIATE, or SENIOR RESEARCH SCIENTIST). Preference will be given to candidates with expertise to conduct research in one or more of the following areas.

Ecotoxicology: contaminant transport, fate, and effects, especially for environmental risk assessment or remediation.

Environmental microbiology: role of microbes in determining the fate of contaminants.

Molecular ecological genetics: molecular techniques for studying genetic or ecological processes, especially contaminant effects.

Surface water hydrology: dynamics of southeastern watersheds, especially the effects of land use practices or contaminant transport.

SREL is an environmental research laboratory situated on the 300-square-mile Savannah River Site near Aiken, South Carolina. Principal funding for the laboratory is from the U.S. Department of Energy. SREL faculty hold joint or adjunct appointments with academic departments at the University of Georgia; involvement with graduate education is expected. More information on these positions and SREL is available at website: <http://www.uga.edu/~srel/search98>.

U.S. citizenship and Ph.D. in appropriate area are required. Salary and level of appointment commensurate with experience. Review of applications will begin January 31, 1998. Send curriculum vitae, a description of research interests, names, addresses, telephone numbers, and e-mail addresses of four references to: Search Committee Chair, SREL, Drawer E, Aiken, SC 29802. The University of Georgia is an Equal Employment/Affirmative Action Institution.

CHAIR DEPARTMENT OF PSYCHIATRY UNIVERSITY OF FLORIDA College of Medicine

The University of Florida College of Medicine seeks a distinguished individual to serve as Professor and Chair of the Department of Psychiatry. Applicants should have an M.D. degree and demonstrated accomplishments in research, education, clinical service, and administration. The Chair is responsible for leadership and management of the department including: faculty recruitment and development, undergraduate and graduate medical education, fiscal affairs, clinical programs, and research. The Chair will also assure an effective interface between the department and the University of Florida Brain Institute, a major university-wide initiative. The successful candidate will provide overall leadership of psychiatric programs in Gainesville including the VAMC and in Jacksonville and is expected to work in concert with other behavioral health professionals to provide an integrated approach to the provision of mental health services. The position offers a competitive salary. Qualified individuals should send their curriculum vitae and three letters of recommendation to: Chair, Psychiatry Search Committee, Department of Pharmacology, Box 100267, University of Florida, College of Medicine, Gainesville, FL 32610-0267. Application deadline is March 6, 1998, with a start date on or after June 1, 1998. The University of Florida is an Equal Opportunity Employer, and minorities and women are encouraged to apply.

CLINICAL FACULTY DIALYSIS NEPHROLOGIST. The Department of Internal Medicine, University of Michigan Health System, Ann Arbor is recruiting a faculty member for the dialysis programs at the level of ASSISTANT PROFESSOR of medicine. Clinical or academic track available. Candidates should be B.C. in internal medicine and B.C./B.E. in nephrology. The position will include all aspects of nephrology with an emphasis on active acute and chronic care dialysis programs.

The successful candidate will have demonstrable teaching and clinical abilities. Please send letters of interest and curriculum vitae to: Roger Wiggins, Department of Internal Medicine, University of Michigan Medical Center, 3914 Taubman Center, Ann Arbor, MI 48109-0364. The University of Michigan is a nondiscriminatory, Affirmative Action Employer.

POSITIONS OPEN

HUNTER ENDOWED CHAIR IN BIOENGINEERING

The Department of Bioengineering at Clemson University is seeking nominations and applications for the Hunter Endowed Chair in Bioengineering. This position, made possible by a generous endowment provided by the late Mr. Thomas Hunter and additional support by the Greenville Hospital System/Clemson University Biomedical Cooperative, offers a competitive salary and peripheral support. The ideal candidate for this position has a Ph.D. degree in engineering and/or basic sciences and has significantly influenced the field of biomaterials research, with an emphasis on biotechnology addressing clinical and medical needs, as documented by peer-reviewed publications and a significant research funding history. The successful applicant will assume teaching and research responsibilities in the Department of Bioengineering which is recognized worldwide for its pioneering work in the field of biomaterials. S/he will be expected to collaborate with hospital-based clinicians under the auspices of the Greenville Hospital System/Clemson University Biomedical Cooperative and develop an active research program. There are no administrative duties linked with this position. Consideration of candidates will begin on March 15, 1998, and will continue until the position is filled. Nominations and applications should be sent to: Dr. Martine LaBerge, Chair, Hunter Professor Search Committee, Department of Bioengineering, 401 Rhodes, Clemson University, Clemson, SC 29634-0905. Telephone: 864-656-5557; FAX: 864-656-4466. The application package should include a curriculum vitae listing publications and funding history, a description of research plans, and the names, addresses, and telephone numbers of at least three references.

Clemson University is an Equal Opportunity/Affirmative Action Employer and encourages applications from minorities and women.

FACULTY POSITION IN BIOMEDICAL ENGINEERING NORTHWESTERN UNIVERSITY

Northwestern University, one of the pioneer universities in biomedical engineering, seeks an ASSOCIATE or FULL PROFESSOR, in the McCormick School of Engineering and Applied Science on the Evanston campus, who might also be jointly appointed in the Medical School on the Chicago campus, if this is appropriate. The new faculty member will be expected to maintain a distinguished research program and contribute to the teaching of graduate and undergraduate students. Research is centered in rehabilitation engineering, cardiopulmonary engineering, quantitative neuroscience, and medical devices, but the search is not restricted to these areas. Approximately 80 graduate students are pursuing M.S. and M.S.-Ph.D. degrees in biomedical engineering on both campuses, and the Department graduates about 60 students per year in its ABET-accredited undergraduate program. Applicants should send a letter, curriculum vitae, and statement of research interests to: Robert A. Linsenmeier, Chair, Biomedical Engineering Department, Northwestern University, 2145 Sheridan Road, Evanston, IL 60208-3107. Telephone: 847-491-7426; FAX: 847-491-5299; e-mail: r-linsenmeier@nwu.edu. More information is available at websites: <http://www.nwu.edu/bme> and <http://www.nums.nwu.edu>. The earliest starting date for the position is September 1, 1998. Women and candidates from underrepresented minority groups are encouraged to apply. Northwestern University is an Affirmative Action/Equal Opportunity Employer. Hiring is contingent upon eligibility to work in the United States.

OCEANOGRAPHER

The Maritime Studies Program invites applications for a two-year renewable appointment beginning fall 1998 as Williams College ASSISTANT PROFESSOR of Marine Science at Mystic Seaport, Mystic, Connecticut to teach oceanography, supervise undergraduate research in oceanography/marine ecology, and maintain an active research program. Preference given to applicants with oceanography Ph.D., teaching experience in off-campus programs, and research focused in coastal systems. Curriculum vitae, statement of teaching and research interest, names, addresses, and e-mail of three references by January 23, 1998, to: Dr. James T. Carlton, Williams-Mystic Program, P.O. Box 6000, Mystic, CT 06355. Telephone: 860-572-5359; FAX: 860-572-5329. As an Equal Opportunity/Affirmative Action Employer, Williams College especially encourages applications from women and minority candidates.

POSITIONS OPEN

CLINICAL CHEMISTRY. Cleveland State University, in association with The Cleveland Clinic Foundation, invites applications for a tenure-track faculty position at the level of ASSISTANT PROFESSOR in clinical chemistry for fall 1998. The individual will participate in the graduate clinical chemistry program in terms of research, teaching, and program development. We are seeking a dynamic individual who will help build a strong research base within the Department of Chemistry, which may include collaborative research ventures with The Cleveland Clinic and/or industry. The applicant must have a Ph.D. in clinical chemistry, biochemistry, chemistry, molecular biology, or related field; and be Board-certified or eligible for Board certification in clinical chemistry by the American Board of Clinical Chemistry. The successful applicant must be able to develop a nationally competitive research program in a biomedically related area. All research specialties will be considered; however, expertise in molecular diagnostics, pharmacogenetics, or immunochemistry is especially desired. Additionally, the successful applicant will teach undergraduate chemistry courses and graduate courses in the clinical chemistry program. Preference will be given to individuals with postdoctoral experience and to research and teaching areas that complement departmental expertise. The Department of Chemistry offers Bachelor's, Master's, and Ph.D. degrees; the latter is jointly administered with The Cleveland Clinic. The clinical chemistry program at Cleveland State is one of only two ComACC-accredited doctoral programs within chemistry departments in the United States. Review of applications will begin on January 31, 1998, and will continue until the position is filled. Send a curriculum vitae, a description of research plans, a statement of teaching experience and/or interests, copies of undergraduate and graduate transcripts, and arrange three letters of recommendation to be sent to: Dr. David Anderson, Chair, Clinical Chemistry Search Committee, Department of Chemistry, Cleveland State University, Cleveland, OH 44115. Telephone: 216-687-2453; FAX: 216-687-9298. Cleveland State University is an Affirmative Action/Equal Opportunity Employer committed to nondiscrimination. Minorities/Females/Disabled/Veterans encouraged.

FACULTY POSITION IN MICROBIAL PATHOGENESIS

The Department of Biology and Biochemistry at the University of Houston invites applications for a tenure-track faculty position at the ASSISTANT, ASSOCIATE, or PROFESSOR level using biochemical, cellular, or genetic approaches to investigate molecular mechanisms of bacterial or fungal pathogenesis. The position requires a Ph.D. degree and postdoctoral experience. The faculty member will be expected to develop and maintain a nationally competitive research program, participate in graduate training, and contribute to undergraduate teaching. The Department has spacious labs with state-of-the-art equipment, strong research programs, and encourages active research collaborations among its faculty. Review of applications will begin immediately and continue until suitable candidates have been identified. Please submit curriculum vitae with a research plan and have three letters of reference sent to: Dr. Arnold Eskin, Search Committee, Department of Biology and Biochemistry, University of Houston, Houston, TX 77204-5934. University of Houston is an Equal Opportunity/Affirmative Action Employer. Minorities, women, veterans, and persons with disability are encouraged to apply.

RESEARCH ASSOCIATE. Protein chemistry. Operate protein/peptide sequencing process, perform database searches, analyze protein sequences. Research protein purification and characterization using gel electrophoresis, high pressure liquid chromatography (HPLC), and fast protein liquid chromatography (FPLC). Responsible for protein isolation based on size, charge, hydrophobicity, or affinity; electrophoretic, spectrophotometric, and immunochemical analysis of proteins. Minimum requirements: M.S. in biochemistry, chemistry, or related field; five years of experience as Chemist or Biochemist responsible for protein synthesis and purification. Must also have demonstrated expertise with micro-protein sequencing and methods of protein purification. Salary: \$56,050 to \$61,877. Send two résumés to: Rhode Island Department of Labor and Training, Attn: T. Salabert, 101 Friendship Street, Providence, RI 02903-3740. Refer to ID# 97-093. An Equal Opportunity Employer.



Texas Biotechnology Corporation

Texas Biotechnology Corporation is a thriving biopharmaceutical company with 90 employees, adjacent to the Texas Medical Center in Houston. Our mission is to create small molecule drugs active against vascular disease targets. Our research pipeline includes programs in integrins, growth factors, and apoptosis, and has produced two compounds in phase II clinical trials. At present we have employment opportunities for two innovative, motivated senior scientists with postdoctoral experience:

Bioinformatics/ Genomics Ph.D.

To use genomic technologies to discover functional sequences, use expression analysis, linkage analysis, and chip-based technologies to identify novel targets working with an interactive group of chemists and biologists.

Molecular Biologist Ph.D.

To join the Apoptosis Drug Discovery Program to study mechanisms of apoptotic signaling. Experience with expression and mutagenesis of caspases and cell surface receptors preferred.

Texas Biotechnology is an Equal Opportunity Employer offering competitive salaries and excellent benefits. If you are interested in either of the above positions, please forward your CV including the names of three references to: **Suzanne G. Eskin, Ph.D., Director of Cell Biology, Texas Biotechnology Corporation, 7000 Fannin, Suite 1920, Houston, TX 77030; seskin@tbc.com.**

CELLULAR AND MOLECULAR NEUROBIOLOGY

Postdoctoral/Research Associate Positions

The Neuroscience Program in the Loeb Research Institute at the Ottawa Civic Hospital, University of Ottawa, has 1-3 yr positions in an active program in cellular and molecular neurobiology with themes related to neurotransmission, cellular homeostasis, and response to ischemic/anoxic injury. Candidates with a Ph.D. and/or M.D., demonstrated expertise in molecular and/or cellular neurobiology, electrophysiology (patch and voltage clamp), and/or confocal microscopy will work with faculty on the research areas shown below. Stipends start at \$28,650/annum.

Petro Doroshenko, Ph.D.

Cell cycle-dependent regulation of volume-sensitive ion channels

Bin Hu, MD, Ph.D.

Na-K-ATPase, synaptic plasticity and ischemic cell death

Howard Lesiuk, M.D.

Signal transduction in CNS ischemia

Catherine Morris, Ph.D.

Mechanosensitive ion channels

Leo Renaud, MD, Ph.D.

Synaptic transmission and neuromodulation in hypothalamus and spinal cord

Peter Stys, M.D.

Sodium and calcium-dependent mechanisms in CNS ischemia and spinal cord injury

Mario Tiberi, Ph.D.

Signal transduction at dopaminergic receptors

For details, check our website at www.lri.ca or contact any of the scientists by FAX at 613-761-5360. By March 15, 1998, applicants should submit a CV, names of three referees, and a brief statement of research interests to the appropriate scientist(s) at: **Ottawa Civic Hospital Loeb Research Institute, 1053 Carling Ave., Ottawa, Ontario, K1Y 4E9, CANADA**

OTTAWA CIVIC HOSPITAL
HÔPITAL CIVIC D'OTTAWA



UNIVERSITÉ D'OTTAWA
UNIVERSITY OF OTTAWA

**NEUROSCIENCES
LOEB RESEARCH INSTITUTE**

Opportunities in gene therapy

NeuroVir is an innovative company specializing in approaches to gene therapy for cancer and other diseases based on proprietary herpes virus technologies. Our company currently has exciting opportunities in the following areas:

PROJECT LEADER -- ANIMAL MODELS

To build and lead a group to study herpes vectors in cancer and gene therapy models. Must have an established record in cancer biology and demonstrated experience in leading a team.

SCIENTISTS

Molecular Biology/Virology (2 positions)

First position: to work on construction and analysis of recombinant herpes vectors. Second position to develop a quality control program for clinical herpes virus products. PhD and related experience.

Tumor Cell Biology/Immunology

To analyze immune responses to herpes viruses *in vivo*, both to the virus itself and in response to viral expression of immune-modulatory genes. PhD and related experience.

Process Development:

Cell Biology/Protein Chemistry (2 positions)

To work on large-scale bioreactor production of viruses, and virus purification/formulation of product. MSc/PhD and related experience.

POST-DOCTORAL POSITIONS

Opportunities exist for post-doctoral fellows in all aspects of herpes vectorology.

NeuroVir's state-of-the-art laboratory in the beautiful city of Vancouver, Canada, offers opportunities in both cutting-edge science and personal lifestyle. We offer an excellent compensation package including a competitive salary and comprehensive benefits.

For prompt, confidential consideration, please apply to NeuroVir at #100 - 2386 East Mall, Vancouver, British Columbia, Canada V6T 1Z3; by facsimile at 604 822 0607; or by E-mail at info@neurovir.com.

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

NeuroVir

POSITIONS OPEN

MEHARRY MEDICAL COLLEGE SCHOOL OF MEDICINE

Research Centers in Minority Institutions (RCMI)
and the Department of Biochemistry

Faculty positions are available in 1997-98 at the **ASSISTANT PROFESSOR**, **ASSOCIATE PROFESSOR**, or **PROFESSOR** levels in the area of cell signaling, which has been targeted for expansion at the College. Initial funding for these positions is provided by an NIH-funded RCMI program at the College and support from the School of Medicine.

Recruitment of four individuals is expected, in an effort to develop a critical mass of investigators studying cell signaling at the institution. We are seeking scientists who merit primary appointment in the Department of Biochemistry. Joint appointments in clinical or other basic sciences departments are expected. Preference will be given to applicants who have an interest that complements one of our clinical science departments. Selected individuals must have potential or demonstrated competence in the use of molecular biological or biophysical approaches to conducting research in cellular signaling and must also be capable of, and committed to making significant contributions to, the teaching and administrative functions of the appointing department(s). Successful applicants will be expected to develop/maintain a funded research program of high quality and to substantially participate in the graduate and professional (medical, dental, and applied health) school teaching programs of the Department of Biochemistry or other appointing department(s). They will also be required to participate in the further development of molecular neuroscience at the College. Applicants should send curriculum vitae, a statement on teaching interests, names of four individuals who may be contacted for reference, and a summary (not exceeding four pages) of potential research project(s) to either: **Fred Jones, Ph.D., RCMI Program Director and Vice President for Research**, or **A. Cherrie Epps, Ph.D., Dean, School of Medicine**, (both at) Meharry Medical College, 1005 D.B. Todd Boulevard, Nashville, TN 37208. Applications will be evaluated by the search committee appropriate for the targeted area of cell signaling as well as by the appointing department(s). *Meharry Medical College is an Equal Opportunity/Affirmative Action Employer.*

ORGANIZATION FOR TROPICAL STUDIES TROPICAL BIOLOGY/ENVIRONMENTAL SCIENCE:

Undergraduate Teaching in Costa Rica

One to three **RESIDENT FACULTY** positions are available for the Organization for Tropical Studies (OTS) Semester Abroad field program. Faculty will design and team-teach courses at biological stations. Ph.D. in biology, environmental science/policy, forestry, agroecology, natural resource management, or related discipline and commitment to undergraduate teaching required. Tropical field experience and ability to communicate in English and Spanish necessary. Successful candidate(s) will start August 1, 1998 (earlier appointment possible), residing in Costa Rica 11 months per year. Send résumé, letter describing experience and interests, and names of three references to: **OTS Faculty Search, % Interlink 341, Box 526770, Miami, FL 33152**. E-mail: director@ots.ac.cr; FAX: 506-240-6783 in Costa Rica. Review begins January 9, 1998. *Equal Opportunity/Affirmative Action Employer.*

VERTEBRATE ZOOLOGY POSITIONS

Applicants are sought for two tenure-track, **ASSISTANT PROFESSOR** positions in vertebrate zoology to begin August, 1998. Ph.D. required, postdoctoral experience preferred. Applicants must demonstrate significant evidence of teaching potential and will be expected to develop competitive research programs involving both undergraduate and Master's students. Teaching and research requirements for position 1: introductory biology, comparative vertebrate anatomy, ornithology, and animal behavior; position 2: introductory biology, vertebrate physiology, and possibly ichthyology or herpetology. Send curriculum vitae, statements of research interests and teaching philosophy, official transcripts, and have three letters of recommendation sent by February 15, 1998, to: **Faculty Search Committee, Department of Biological Sciences, Sam Houston State University, Huntsville, TX 77341**. Departmental website: http://www.shsu.edu/~bio_www/.

A member of the Texas State University System. An Equal Opportunity/Affirmative Action Institution.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR OF VIROLOGY. The Department of Biomedical Sciences and Pathobiology at the Virginia-Maryland College of Veterinary Medicine, Virginia Tech, invites applications for a tenure-track faculty position in animal molecular virology at the Assistant or Associate Professor level, available July 1, 1998. Rank and salary will be commensurate with qualifications and experience. The successful applicant will be expected to establish and maintain his or her own extramurally funded, independent, and innovative research program. In addition, the successful applicant will be responsible for the development of nucleic acid-based diagnostic tests for viral diseases of animals, and will be expected to participate in the development of genetically engineered vaccines for infectious diseases of animals. The position provides an opportunity to collaborate with traditional and molecular microbiologists and immunologists in well-equipped laboratories including BL-3 level animal isolation facilities. Although the position initially requires minimal teaching effort, the candidate is expected to participate in the graduate teaching program of the department and the college and may eventually join the delivery of the professional curriculum as opportunities arise. Qualifications: Ph.D. with postdoctoral experience. Candidates should submit a letter of interest, curriculum vitae, description of research interest and career objectives, and the names, addresses (including telephone numbers and e-mail addresses where available) of at least three references to: **Thomas E. Toth, D.V.M., Ph.D., Department of Biomedical Sciences and Pathobiology, Virginia-Maryland College of Veterinary Medicine, Center for Molecular Medicine and Infectious Diseases, 1410 Prices Fork Road, Blacksburg, VA 24061-0342**. Review of applications will begin on February 1, 1998, and continue until a suitable candidate is found. *Virginia Tech has a strong commitment to the principle of diversity and, in that spirit, seeks a broad spectrum of candidates including women, minorities, and people with disability. Individuals with disability desiring accommodations in the application process should notify Dr. Toth as noted above, or at TTY: 1-800-828-1120.*

FACULTY POSITIONS IN TOXICOLOGY HARVARD SCHOOL OF PUBLIC HEALTH

Two **ASSISTANT PROFESSORSHIPS** in the newly formed Department of Cancer Cell Biology are now available for individuals with interests and accomplishments in the broad area of molecular/genetic mechanisms of cellular injury induced by environmental and endogenous chemicals. The successful candidates will be expected to establish independent research programs that complement the current departmental interests in oxidative stress, DNA damage and repair, genetic recombination, and cellular mechanisms of signal transduction, and to participate in the department's graduate teaching programs.

Interested candidates should send a curriculum vitae, a succinct statement of research accomplishments and future plans, and the names, addresses, telephone, FAX, and e-mail contacts of three evaluators to: **Bruce Dimple, Ph.D., Department of Cancer Cell Biology, Building 1, Room 609, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115-6021**.

Harvard University is committed to increasing the number of women and minorities in its faculty and especially encourages applications from such candidates.

ASSISTANT/ASSOCIATE PROFESSOR DEPARTMENT OF CELLULAR BIOLOGY AND ANATOMY

Tenure-track faculty position available for a Ph.D./M.D. **CELLULAR** or **DEVELOPMENTAL NEUROSCIENTIST** with postdoctoral training in vertebrate sensory or central nervous systems. All outstanding candidates will be considered, but those using electrophysiological methods combined with molecular and/or functional imaging techniques are encouraged to apply. Associates must have current federal funding. Faculty are expected to participate in team-taught medical neuroanatomy and graduate cell biology courses. Faculty interests include olfaction, obesity, ethanol immunobiology/toxicology, extracellular matrix proteins, and cancer cell/molecular biology. Excellent facilities are available. Send curriculum vitae, research descriptions, and references to: **Leonard L. Seelig, Ph.D., Department of Cellular Biology and Anatomy, Louisiana State University Medical Center, P.O. Box 33932, Shreveport, LA 71130-3932**. Louisiana State University Medical Center is an Affirmative Action Employer.

POSITIONS OPEN

FOREST HYDROLOGY/WATERSHED MANAGEMENT UNIVERSITY OF KENTUCKY

The University of Kentucky invites applications for a twelve-month, tenure-track faculty position in forest hydrology/watershed management at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR** in the Department of Forestry. Rank and salary will be commensurate with qualifications and experience.

Candidates are sought with demonstrated research interest and expertise in the interface between biotic and hydrologic processes. The successful candidate will be expected to initiate a productive, extramurally funded research program (0.6 FTE) in the area of expertise, as well as contribute to the analysis and continuance of an existing long-term hydrologic data set from the University of Kentucky research forest. Possible research areas may include hydrologic processes in relation to timber harvesting and forest management operations, hillslope hydrologic processes, watershed hydrology, hydrologic processes in constructed ecosystems, hyporheic zone processes, and nutrient dynamics in the hydrologic/biotic interface. Collaboration with other forestry and natural resource specialists is strongly encouraged. Teaching responsibilities (0.4 FTE) include an undergraduate course in forest hydrology, contribution to a senior capstone course in forest management, contribution to a curriculum in natural resource conservation, and a graduate course in the area of expertise.

Qualified applicants (earned doctorate in area of expertise) should submit curriculum vitae, transcripts, a brief statement of research interests, teaching philosophy and career goals, and three letters of recommendation to: **Dr. Robert N. Muller, Department of Forestry, University of Kentucky, Lexington, KY 40546-0073**. E-mail: rmuller@ca.uky.edu. Closing date for applications is February 15, 1998, or until a suitable candidate is found. Starting date is by August 15, 1998.

The University of Kentucky is an Equal Opportunity Employer.

ASSISTANT PROFESSOR OF REMOTE SENSING MOUNTAIN RESEARCH CENTER Montana State University, Bozeman

Ph.D. in application of remote sensing to ecological research in earth science or plant, soils, and environmental science. Demonstrated ability to conduct research and publish results. Experience with digital image processing software and linking remote sensing and GIS. Preferred record of effective work in inter- and multidisciplinary teams, demonstrated ability to obtain competitive grants for support of research, teach remote sensing courses, and to communicate effectively with scientists from a variety of disciplines. Submit résumé, letter explaining relevant research, teaching, and interdisciplinary activities, showing how these relate to the selection criteria, and contact information for three references to: **Richard Aspinall, Chair, Remote Sensing Search Committee, Geographic Information and Analysis Center, Box 173490, Montana State University, Bozeman, MT 59717**. Screening begins January 5, 1998. Website: www.montana.edu or www.mrc.montana.edu for details. *Americans with Disabilities Act/Equal Opportunity/Affirmative Action/Veterans preference.*

MUSCLE PHYSIOLOGIST UCLA

The UCLA Department of Physiological Science seeks highly qualified applicants for a tenure-track position at the **ASSISTANT PROFESSOR** level. We are searching particularly for applicants who use integrative approaches to muscle physiology and can interact with existing faculty in research areas that include the structure and function of neuromuscular junctions and mechanisms of muscle growth, adaptation, and pathophysiology. The successful candidate will be expected to participate in undergraduate and graduate teaching and to establish a vigorous, externally funded research program. Minimum qualifications include a Ph.D. degree in a relevant discipline, postdoctoral experience, and the demonstrated ability to perform excellent research. Applicants should submit a curriculum vitae with a description of research plans, reprints or preprints of key publications, and have three letters of recommendation sent to: **Dr. James G. Tidball, Chair of Search Committee, Department of Physiological Science, College of Letters and Science, University of California, Los Angeles, CA 90095-1527**. Applications should be received by February 16, 1998.

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- Bioanalytical chemistry or organic analytical chemistry with biological experience
- Hands-on Bench Scientist

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THE R.W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE

Postdoctoral Fellow Molecular Immunology

Currently, the R.W. Johnson Pharmaceutical Research Institute in **Raritan, NJ**, has an exciting opportunity within its Immunology team which is using state-of-the-art molecular techniques, specific small-molecular inhibitors and transgenic technologies to examine novel signal transduction pathways in lymphoid cells and other cells.

To qualify, you must possess a PhD in either Molecular Biology, Immunology or Biochemistry with experience in basic molecular biological techniques and the application of these techniques to the study of signal transduction mechanisms. Experience with immunological system is a plus. **Dept. 1766.**

Postdoctoral Biologist/Biochemist —Mass Spectroscopy

As a Molecular Biologist/Biochemist for PRI in **Suburban Philadelphia** on our Multi-disciplinary NMR and Mass Spectrometry team in the Drug Discovery department, you will develop automated methods to separate, characterize and identify proteins from various unknown genes, specializing in the development of an automated gel electrophoresis/mass spectrometer with UV and IR ionization capabilities.

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To apply, please forward a scannable resume, noting the appropriate department code and salary requirement, to: **Dept. # of position of interest, Johnson & Johnson Recruiting Services, PO Box 16597, New Brunswick, NJ 08906-6597.** An equal opportunity employer, m/f/d/v, committed to diversity in the workplace.

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To qualify for this two-year postdoctoral fellowship, candidates must have a PhD with a background in Molecular Biology or Biochemistry. Individuals experienced in utilizing state-of-the-art Mass Spectrometry techniques to investigate proteomes are strongly encouraged to apply. **Dept. 1767.**

Johnson & Johnson

Postdoctoral Image Acquisition & Processing

In this position, located in **New Brunswick, NJ**, you will work independently in the design, assembly and support of sophisticated imaging systems in the clinical evaluation of new and existing pharmaceuticals applied to skin, hair, etc.

Applicants should have a PhD in physics, optical engineering or bioengineering and up to 2 years' practical experience. A thorough knowledge of image analysis, image enhancement techniques, three dimensional image space, and feature extraction techniques is essential. Practical photographic experience, along with knowledge of Image Pro Plus and PhotoShop are highly desirable, especially scripting analysis routines and developing custom plug-ins. You must be creative, able to handle a variety of tasks simultaneously and have excellent communication skills. Domestic and International travel will be required to set up and support our business partners. **Dept. 1768.**

POSITIONS OPEN

OBERLIN COLLEGE

The Department of Biology at Oberlin College invites applications for two full-time, non-continuing faculty positions for the 1998-99 academic year (nine-month appointment).

MICROBIOLOGY/MOLECULAR GENETICS AND VERTEBRATE BIOLOGY/NEUROBIOLOGY

The successful candidate for the microbiology/molecular genetics position will teach two upper-division undergraduate courses: general microbiology (with laboratory) in the fall, and nucleic acids and molecular genetics (with laboratory) in the spring.

Teaching responsibilities of the other incumbent include an upper-level vertebrate organismal biology course with laboratory (preferably a comparative anatomy course), an upper-level course in neuroscience with laboratory that complements the existing curriculum (preferably neuroanatomy), and a contribution to a team-taught introductory neuroscience course.

Opportunities exist for these **VISITING ASSISTANT PROFESSORS** to supervise individual undergraduate student research projects.

Among the qualifications required for appointment is the Ph.D. degree, in hand or expected by July 1998. Candidates must demonstrate interest and potential excellence in undergraduate teaching.

To be assured of consideration, letters of application, including a curriculum vitae, graduate transcript, and three letters of reference should be sent to: **Dr. Dennis N. Luck, Chair, Department of Biology, Oberlin College, Oberlin, OH 44074** by February 2, 1998. Application materials received after that date may be considered until the positions are filled.

Oberlin College admitted women since its beginnings in 1833, and has been historically a leader in the education of African-Americans.

BIOLOGIST

The Science and Technology Department at Bryant College is seeking candidates for a tenure-track appointment at the **ASSISTANT PROFESSOR** level. A Ph.D. degree in biology or a related area is required; specialization in evolutionary biology with experience in molecular techniques is preferred.

Bryant College is a business specialty school that requires all students to complete two science courses from the arts and sciences core. In addition, the department offers two minors, in environmental science and biotechnology. Candidates with business or practical experience in these areas are preferred.

The successful candidate will have a strong desire for teaching undergraduate non-majors and demonstrate an ability to conduct a modest research program involving undergraduate students. Teaching responsibilities include general biology with lab, earth science, and a specialty course developed by the candidate for our minors.

Send cover letter describing relevant teaching, research, and business experience, a résumé, and the names and contact information of three references by February 15, 1998, to: **David F. Betsch, Chairman of Science and Technology, Bryant College, 1150 Douglas Pike, Smithfield, RI 02917.**

Bryant College is an Equal Employment Opportunity/Affirmative Action Employer committed to diversifying its faculty.

PLANT DEVELOPMENTAL BIOLOGIST

East Tennessee State University Biological Sciences Department, **website: <http://www.etsu-tn.edu/biology>** invites applications for a tenure-track position, **ASSISTANT PROFESSOR** level, starting 15 August 1998. Ph.D. required with specialization in plant developmental biology using modern research approaches and demonstrable commitment to teaching and research. Teaching duties include participation in general biology sequence, courses in plant development and diversity. Development of advanced course in area of interest encouraged. Will be responsible for developing active research program to include B.S. and M.S. Applicants with broad botanical training are especially encouraged.

Send curriculum vitae, transcripts, statements of teaching and research interests, and three letters of recommendation by February 1, 1998, to: **Dr. Cecilia McIntosh, Search Committee, Biological Sciences Department, East Tennessee State University, Johnson City, TN 37614-0703. Telephone: 423-439-5838; FAX: 423-439-5958; e-mail: mcintosh@access.etsu-tn.edu.** *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN



ASSISTANT PROFESSOR BIOLOGICAL SCIENCES

Applications are invited for a tenure-track, Assistant Professor position in aquatic ecology. The successful candidate will be expected to be committed to undergraduate education and to develop an active, extramurally funded research program that supports Master's and doctoral-level graduate students. Preference will be given to applicants with basic research expertise in aquatic ecology. Individuals with research interests in the Great Lakes region are strongly encouraged. Postdoctoral experience is desirable.

Michigan Technological University encourages interdisciplinary research programs and offers numerous opportunities for research collaborations in conjunction with faculty in the Environmental Engineering Center, the EPA Center for Clean Industrial and Treatment Technologies, the Lake Superior Research group, and the Remote Sensing Institute. Construction of a \$45 million Environmental Sciences and Engineering Complex that houses the Department of Biological Sciences will be completed summer 1998.

Review of applications will commence January 30 and will continue until the position is filled. Send applications, consisting of curriculum vitae, a brief statement of teaching philosophy and research goals, and a list of three references to: **Search Committee, Department of Biological Sciences, Michigan Technological University, 1400 Townsend Drive, Houghton, MI 49931.** *Michigan Technological University is an Affirmative Action/Equal Opportunity Employer/Educational Institution.*

MICROBIOLOGIST. Tenure-track **ASSISTANT PROFESSOR** beginning fall 1998 in the Department of Biology at Colorado College; a private, undergraduate, highly selective, liberal arts institution enrolling 1,910 students. Responsibilities include: (1) teaching introductory microbiology, genetics (molecular or microbial), cell biology, and an upper-level course in area of specialty, and (2) development of a molecular-oriented, undergraduate research program on bacteria or yeast. Ph.D. and postdoctoral research experience required. Teaching background and experience with modern molecular techniques highly desirable. The College seeks candidates who understand the perspectives of women and minorities in the curriculum and invites candidates to identify their strengths or experiences in these areas. Applicants should send: cover letter that includes a description of professional background and goals, statement of teaching philosophy, description of current and future research plans, curriculum vitae with e-mail address, copies of undergraduate and graduate transcripts, and four letters of recommendation to: **Richard Storey, Chair, Department of Biology, Colorado College, Colorado Springs, CO 80903** by no later than January 15, 1998. *Colorado College is an Equal Opportunity Employer; we welcome members of all minority groups and reaffirm our commitment to hire without regard to race, color, age, religion, sex, national origin, sexual orientation, or disability.*

ASSISTANT/ASSOCIATE PROFESSOR OF PHARMACOLOGY NEUROSCIENCE/CARDIOVASCULAR

A tenure-track position as Assistant or Associate Professor in the Department of Pharmacology and Toxicology is open at the Medical College of Georgia. The successful candidate must hold a doctoral degree and will be expected to establish an independent, extramurally funded research program utilizing molecular and/or cellular approaches. We desire applicants with outstanding accomplishments in either neuroscience or cardiovascular pharmacology who will add to the existing strengths of the department and other disciplines. Excellent core resource facilities exist including those for DNA sequencing, analytical chemistry, transgenic mice, and aged primates. Teaching responsibilities will be in medical and graduate courses. Competitive salary, laboratory space, and start-up funds are available. Please send a curriculum vitae, a letter describing research plans, and the names of three referees to: **Dr. R. W. Caldwell, Department of Pharmacology and Toxicology, Medical College of Georgia, Augusta, GA 30912-2300.** Application deadline is March 15, 1998. *The Medical College of Georgia is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

Biology (two positions). Portland State University invites applications for tenure-track **ASSISTANT PROFESSOR** positions in animal cell physiology and microbiology. **Animal Cell Physiologist:** Cell Physiologist having an integrated perspective, to interface with a systems physiology, organismal and evolutionary biology faculty. Teaching duties will include undergraduate courses in introductory cell physiology, human anatomy and physiology, and upper-division and graduate courses in her/his area of specialty. **Microbiologist:** Microbiologist with a strong background in prokaryotic biology (Bacteria or Archaea) focusing on inorganic energy metabolism, nitrogen fixation, gene regulation, development and differentiation, bacterial photosynthesis, stress responses, or other aspects of microbial diversity or metabolism. Teaching duties will include courses in introductory and general microbiology and upper-division and graduate courses in her/his area of specialty. For both positions, postdoctoral experience is desired and the successful candidate will be expected to establish and supervise an independent research program that will attract extramural funding and provide research training for undergraduate and graduate students. Send a current curriculum vitae, a list of references (with e-mail addresses), and a statement of research and teaching interests to: **Chair, Cell Physiology Search or Chair, Microbiology Search, Department of Biology, P.O. Box 751, Portland State University, Portland, OR 97207-0751.** Closing date for receipt of applications is January 30, 1998. Further university information is available at **website: <http://www.pdx.edu/>.** *Portland State University is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.*

PHYSIOLOGIST. Idaho State University, Department of Biological Sciences, announces a tenure-track position for a Physiologist, at the level of **ASSISTANT PROFESSOR**, commencing August 1998. The successful candidate must hold a doctorate (postdoctoral experience preferred), will train students from undergraduate to doctoral levels, and will be expected to develop a research program with emphasis in an area of physiology that complements existing faculty research strengths. Teaching responsibilities may include participation in introductory courses, and specifically will include an upper-division/graduate-level systemic physiology course for health professions programs, including Occupational Therapy and Physical Therapy students. Participation in systemic pathophysiology and neuroscience courses is also anticipated. The position will remain open until filled. Please send a letter of application, curriculum vitae, and a statement of teaching experience, teaching philosophy, and research goals. Also have three letters of recommendation sent by December 30, 1997, to: **Physiologist Search Committee Chair, Department of Biological Sciences, Box 8007, Idaho State University, Pocatello, ID 83209-8007.** For information about the department see **website: <http://www.isu.edu/departments/bios>.** *Idaho State University is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION IN MOLECULAR MICROBIOLOGY WASHINGTON UNIVERSITY IN ST. LOUIS

The Department of Molecular Microbiology at the Washington University School of Medicine solicits applications for a tenure-track appointment as **ASSISTANT PROFESSOR**, beginning in the fall of 1998. Our program has a strong emphasis on microbial pathogenesis, in viral, prokaryotic, and eukaryotic systems (information can be found at **website: www.microbiology.wustl.edu**). We are seeking interactive individuals with a commitment to establishing a vigorous independent research program and teaching. Applicants should send a detailed curriculum vitae, selected reprints, description of current and planned research interests, and arrange to have three letters of reference sent by February 1, 1998, to: **Dr. Stephen M. Beverley, Chairman of Molecular Microbiology, Attn: Faculty Search Committee, Washington University School of Medicine, Campus Box 8230, 660 South Euclid Avenue, St. Louis, MO 63110.**

Washington University School of Medicine is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.

CELL CULTURE/MICROBIAL FERMENTATION PROCESS DEVELOPMENT

ASSISTANT/ASSOCIATE DIRECTOR

SmithKline Beecham is a world leader in pharmaceutical research, built on the excellence and dedication of our employees. We currently have an opportunity available for a Assistant/Associate Director.

The selected individual will manage and scientifically direct an accomplished group of professionals to develop all aspects of cell culture and microbial fermentation processes. This will begin with the receipt of the cell line, progress through pilot plant equipment, and end with the transfer of the process to manufacturing. The candidate will also establish and maintain appropriate interactions with purification development, pilot plant operations, QA/QC, analytical, regulatory, project management, and manufacturing organizations; prepare or approve technical reports, appropriate sections of regulatory documents, GMP documents, and project plans; and provide innovative technical leadership to assure that SB processing technology meets or exceeds those of our competitors. This person will also advise departmental staff on developments in the regulatory arena that may impact Project-related activities; and identify existing and potential technical and managerial problems related to direct and matrix team responsibilities and find solutions.

The successful candidate will have a theoretical and practical scientific knowledge equivalent to a Ph.D. in biochemical engineering, cell biology, microbiology, or other related discipline; 10 years' experience in the pharmaceutical or biotechnology industry developing and validating cell culture and harvesting processes in a pilot plant environment, (preferably using CHO cells in suspension culture up to large scale bioreactors - e.g. 1000 L); a working knowledge of statistics, design of experiments methodology, worldwide regulatory requirements and Good Manufacturing Practices; a detailed knowledge of CMC issues in the drug development process; and a growing record of innovative achievement in areas related to this position and reflected in patents, external publications, internal reports, awards, etc. Experience developing microbial fermentations producing biopharmaceutical products and participating on product development teams during Phase I-III development stages are also desired.

Located in a state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits/relocation package as well as a stimulating work environment. For confidential consideration, please forward a resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code K7-0624, P.O. Box 2645, Bala Cynwyd, PA 19004. **Indicating Job Code is essential.** For more information on SmithKline Beecham, visit our Web site at www.sb.com/careers. We are an Equal Opportunity Employer, M/F/D/V.



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POSITIONS OPEN

ASSISTANT PROFESSOR OF ENTOMOLOGY

Transgenic Insect Scientist: 12-month; tenure-track (50 percent teaching, 50 percent research) joint appointment in the Department of Entomology and the Center for Advanced Invertebrate Molecular Sciences. Incumbent is expected to develop a research program on transgenic insects and their applications using species of practical medical or agricultural importance. Teaching responsibilities include development of an invertebrate molecular genetics course or teaching an undergraduate course in genetics and development of a graduate course in transgenic systems. Applicants should have a Ph.D. in entomology, biological sciences, or a related field, with relevant postdoctoral research experience in transgenic systems. Depending on qualifications and interests, the position may involve joint appointments with other departments. Salary commensurate with qualifications. Excellent laboratory facilities are available. Applicants should send: a curriculum vitae, a letter of application with brief descriptions of goals and interests in research and teaching, selected reprints (three), and the names and addresses of four references to: **Transgenic Insect Scientist Search Committee, c/o Dr. Ray Frisbie, Professor and Head, Department of Entomology, Texas A&M University, College Station, TX 77843-2475. Telephone: 409-845-2510; FAX: 409-845-6305; e-mail: r-frisbie@tamu.edu.** For further information about the Department and the Center access the website: <http://ento.tamu.edu/>.

Closing date: February 28, 1998.

Texas A&M University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR

The Department of Biological Sciences at the University of Alabama in Huntsville (UAH) invites applications for a tenure-track Assistant Professorship in molecular biology beginning in August 1998. The successful candidate is expected to participate in teaching at the undergraduate and graduate levels while maintaining an active, funded research program. We are particularly interested in outstanding candidates capable of identifying, cloning, and overexpressing targets for structural-based drug design. The successful candidate is expected to work closely with UAH's crystallography group in the Laboratory for Structural Biology as well as with UAH's Natural Products Group. A Ph.D. with appropriate training and expertise in molecular biology to support these thrust areas is required. Postdoctoral experience is highly desirable. Salary is competitive. Send letter of application, curriculum vitae, statement of teaching philosophy and research interests, and have four letters of reference forwarded to: **Molecular Biology Search Committee, Department of Biological Sciences, Wilson Hall, The University of Alabama in Huntsville, Huntsville, AL 35899.** Applications will be accepted for review until a suitable candidate is identified, but screening of applicants will start soon after publication of this announcement. For further information about the university and the department, visit our website: www.uah.edu. Additional information about the position can be requested by e-mail: campbellp@email.uah.edu. UAH is an Affirmative Action/Equal Opportunity Institution.

NUTRITIONAL BIOCHEMISTRY

The Poultry Science Department of Texas A&M University (website: <http://gallus.tamu.edu>) has an opening for an **ASSISTANT or ASSOCIATE PROFESSOR** in nutritional biochemistry. This faculty member will (i) develop an independent, extramurally supported research program with a focus on avian nutrition, (ii) train graduate students and postdoctorates, and (iii) teach nutrition courses at the undergraduate and graduate level. Must be able to relate to the Texas poultry industry. An excellently equipped nutrition laboratory, research and teaching center, and processing facilities are available for the candidate's programs. The Department has active graduate student programs with the College of Veterinary Medicine, Medical Health Science Center, the intercollegiate Faculties of Nutrition, Food Science and Technology, and Genetics and Molecular and Cell Biology. Please send curriculum vitae, a brief statement of research and teaching interests, and have three letters of recommendation delivered to: **Dr. Lee Cartwright, Chair, Search Committee, Poultry Science Department, Texas A&M University, College Station, TX 77843-2472. E-mail: a-cartwright@tamu.edu.**

Texas A&M University is an Equal Opportunity Employer.

POSITIONS OPEN



ASSISTANT PROFESSOR, TENURE-TRACK SCHOOL OF OPTOMETRY University of California, Berkeley

Applications are being accepted for a tenure-track, full-time faculty position from Clinicians and Researchers conducting clinical or basic research on eye diseases or vision disorders. Candidates should have an M.D., O.D., or Ph.D., postdoctoral experience (or equivalent), and a strong commitment to excellence in teaching and research. The successful applicant will be expected to develop an innovative independent research program that attracts extramural funding, to contribute to our interdisciplinary graduate program in visual science, and to teach professional-level courses in the School of Optometry.

Applicants should include a curriculum vitae, names and telephone numbers of three references, and a brief statement (maximum two pages) of research objectives and teaching interests. Application or letter of intent must be submitted by March 1, 1998, to: **Chair, Faculty Search Committee, School of Optometry, University of California, Berkeley, CA 94720-2020.**

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

ASSISTANT PROFESSOR OF MICROBIOLOGY. Applications are invited for an entry-level, tenure-track appointment in the Department of Biological Sciences at Towson University. Teaching responsibilities (12 contact hours a week) will include one or two courses each semester which rotate among general biology, immunology, microbiology, and a graduate course in area of specialty. The successful candidate will be expected to establish an extramurally funded research program using molecular approaches and involving undergraduate and graduate students which will complement existing research in the department. A Ph.D. is required; postdoctoral experience preferred. A completed application should include a résumé, transcripts from all institutions attended; one-page statements on the applicant's teaching philosophy and research interests; and three letters of reference. Applications completed by January 23, 1998, will receive full consideration. The department has 26 full-time faculty, approximately 800 majors, and a M.S. program with about 30 students. Salary is competitive with similar institutions. Visit the Department's website: www.towson.edu/~wubah/biology. Correspondence should be sent to: **Chairperson, Microbiology Search Committee, Department of Biological Sciences, Towson University, 8000 York Road, Towson, MD 21252-7097.**

Towson University is an Equal Opportunity/Affirmative Action Employer and has a strong institutional commitment to diversity. Women, minorities, persons with disability, and veterans are encouraged to apply.

ASSISTANT PROFESSOR OF BIOLOGY. Aquatic biology. Bemidji State University invites applications for a probationary (tenure-track) position beginning August 18, 1998 (subject to availability of funds). Qualifications: Ph.D. in aquatic biology, limnology, fisheries biology, or closely related field is required. Individuals with college/university teaching experience (beyond a teaching assistantship) in the above listed courses will be given preference. The responsibilities for this position are to teach undergraduate and graduate lectures and/or laboratories such as liberal education biology, introductory biology, limnology, ichthyology, fisheries biology, aquatic plants, and readings and seminar courses in aquatic biology. Coordinate and advise undergraduate and graduate students enrolled in the aquatic biology program. Develop an active research program involving students and seek external funding for research. Salary is competitive and commensurate with training and experience. Application should be submitted by January 30, 1998. A letter of application, curriculum vitae, copies of all transcripts (official transcripts are required at time of appointment), a list of all academic courses taught including date(s) and name of institution(s) where taught and the type of appointment(s) you held when you taught the course, and three letters of reference should be sent to: **Dr. Kenneth R. Lundberg, Dean, College of Social and Natural Sciences, Bemidji State University, Bemidji, MN 56601-2699. FAX: 218-755-2822.** Bemidji State University is an Equal Opportunity/Affirmative Action Employer/Educator.

POSITIONS OPEN

ASSISTANT PROFESSOR DEPARTMENT OF PHYSIOLOGY AND BIOPHYSICS Dalhousie University

The Department of Physiology and Biophysics is seeking to fill a tenure-track position at the Assistant Professor level in the area of neurophysiology. We are particularly interested in applicants who are using molecular or cellular approaches, and whose research complements existing programs. Applicants will be expected to contribute to undergraduate and graduate teaching in neurophysiology, and to graduate student supervision.

This is a salaried tenure-track appointment. However, the successful applicant will be expected to apply for salary support from appropriate granting agencies. Applicants must be eligible to apply for a Medical Research Council of Canada Scholarship.

Send a curriculum vitae, publication list, and the names of three referees to: **Dr. Andrew S. French, Head, Department of Physiology and Biophysics, Dalhousie University, Sir Charles Tupper Medical Building, Halifax, Nova Scotia B3H 4H7 Canada.** Further information about the department is available at website: <http://www.physiology.dal.ca>.

Closing date for applications: January 31, 1998.

In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. Dalhousie University is an Employment Equity/Affirmative Action Employer. The University encourages applications from qualified women, aboriginal peoples, racially visible persons, and persons with disability.

ASSISTANT PROFESSOR BIOLOGICAL SCIENCES

Tenure-track Assistant Professor with research and teaching interests in the general area of molecular/cellular biology, to complement existing strengths in environmental and developmental biology. For appointment July 1, 1998; subject to final budgetary approval. The successful applicant will have research interests in metabolic, endocrine, or other physiological processes of higher plants or of vertebrates; or in genetic aspects of biodiversity and the genetic delineation of natural populations. Ph.D. required, postdoctoral experience strongly preferred. Teaching responsibilities include introductory and advanced courses appropriate to expertise, and guidance of B.Sc., M.Sc., and Ph.D. students. Further information at website: www.cs.uwindsor.ca/units/bio/index.html or via e-mail: biosci@uwindsor.ca. Send letter of application, recent curriculum vitae, selected publications, statement of teaching and research interests, and arrange for three letters of reference to: **Dr. Peter F. Sale, Head, Biological Sciences, University of Windsor, Windsor, Ontario N9B 3P4 Canada** by the closing date of 31 January 1998.

The University of Windsor is committed to equity and diversity in the workplace and welcomes applications from aboriginal peoples, persons with disability, and members of visible minorities. Applications from women are particularly encouraged. In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

ASSISTANT PROFESSOR OF BIOLOGY. Botany/plant ecology. Bemidji State University invites applications for a probationary (tenure-track) position beginning August 18, 1998 (subject to availability of funds). Qualifications: Ph.D. in botany, plant ecology, or closely related field. Competence in plant taxonomy and plant physiology is required. Experience and/or demonstrated interest in college/university teaching is desired. The responsibilities for this position are to teach undergraduate and graduate lectures and/or laboratories such as liberal education biology, introductory biology, plant anatomy and morphology, field botany, plant taxonomy, aquatic plants, mycology, soils, ecology, and plant physiology. Advise undergraduate and graduate students and seek external funding for research. Salary is competitive and commensurate with training and experience. Application should be submitted by February 15, 1998. A letter of application, curriculum vitae, copies of all transcripts (official transcripts are required at time of appointment), a list of all academic courses taught including date(s) and name of institution(s) where taught and the type of appointment(s) you held when you taught the course, and three letters of reference should be sent to: **Dr. Kenneth R. Lundberg, Dean, College of Social and Natural Sciences, Bemidji State University, Bemidji, MN 56601-2699. FAX: 218-755-2822.** Bemidji State University is an Equal Opportunity/Affirmative Action Employer/Educator.

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Molecular/Yeasts Biology

Code: S-MYB BS/MS scientists with a minimum of 2 years experience or Ph.D. scientists with a minimum of 3 years postdoctoral research experience in molecular biology for a project expressing mammalian signal transduction proteins in yeast. Background in cellular and molecular biology or biochemistry is required. Experience with yeast and protein analysis is preferred.

Computer Programmer/Analyst

Code: S-CP Bachelors degree in programming needed along with strong programming skills in the following: Java, Perl, HTML, C/C++, and Visual Basic. Familiarity with UNIX and NT environments required. Must have experience with databases-Oracle preferred. Knowledge of molecular biology a plus.

Drug Discovery/Cell Biology

Code: S-DD BS/MS scientists with a minimum of 2 years laboratory experience with strong background in molecular biology, mammalian cell culture, and receptor signal transduction research. Previous experience in molecular target-based drug discovery is also desirable. Qualified individuals will work within the drug discovery group exploring cellular signaling pathways and designing/implementing secondary assay systems to analyze potential therapeutics.

Medicinal & Computational Chemistry

Code: S-MC BS/MS/Ph.D. chemist with a solid background in organic chemistry and experience in organic synthesis. Responsibilities include the design and synthesis, purification, and characterization of novel therapeutic agents using traditional and automated synthetic methods, and the construction of libraries of small molecules targeted for G protein-coupled receptors using modern, robotic systems.

Code: S-CC Ph.D. computational scientist with postdoctoral or industrial experience to apply modern computational methods in drug discovery and combinatorial chemistry. Strong background in homology building, QSAR, modeling and study of ligand-GPCR interactions and previous exposure to structure-based drug design approaches required.

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or email to: hr@cadus.com Cadus is an Equal Opportunity Employer.*

UNIVERSITY OF HAWAII AT MANOA DIRECTOR, INSTITUTE FOR ASTRONOMY

The University of Hawai'i at Manoa solicits applications for the position of Director, Institute for Astronomy. The Institute is headquartered on the Manoa campus of the University, in Honolulu, and operates observational facilities on Haleakala (altitude 10,000 feet = 3050 m, on Maui) and on Mauna Kea (altitude 13,800 feet = 4215 m, on the Big Island of Hawai'i). The Institute staff totals about 180, including 48 faculty. The Director has responsibility for the health and development of the research program of the Institute, for operation of the University's observational facilities, and for liaison with and support of other organizations sited on Haleakala and Mauna Kea. The Director represents the scientific concerns of the University of Hawai'i in discussions with other astronomical groups interested in Hawai'i, prepares and presents testimony to Legislative committees, and is responsible to the University for providing leadership with respect to the use of Haleakala and Mauna Kea for astronomical purposes.

The Director interacts with the media and environmental groups on issues involving Haleakala and Mauna Kea. A Ph.D. in Astronomy, Physics, or related discipline, and attainment of professorial rank or comparable professional experience prior to appointment is required. Applicants must have a distinguished record of personal achievement in astronomical research; extensive experience in working with funding agencies; a demonstrated ability for administration of scientific research programs; an ability to work effectively with, and to command the respect of, faculty, administrators, and external agencies. Experience in working within a multi-institutional and multi-national scientific environment is desirable. Applications, including the names of at least three persons from whom professional references can be obtained, should be sent to: **Chair, IFA Search Committee, 105 Bachman Hall, University of Hawai'i, 2444 Dole Street, Honolulu, HI 96822.** Applications will be accepted through March 2, 1998. The successful applicant will be encouraged to take up his/her post in fall 1998 or as soon thereafter as practicable.

Further details may be obtained from **Dr. Robert McLaren, Interim Director of the IFA (808-956-8566)**, or **Dr. George Herbig, Chair of the Search Committee (808-956-8573)**. The University of Hawai'i is an Equal Opportunity/Affirmative Action Institution.

Neurex Corporation, a rapidly growing biopharmaceutical company focused on the development of an exciting portfolio of products for the acute care hospital setting, is searching for the following:

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POSITIONS OPEN

TUMOR IMMUNOLOGY

The Laboratory of Transplantation Immunology in the Department of Pathology/Microbiology at the University of Nebraska Medical Center, Omaha, Nebraska, invites applications for three **INSTRUCTOR/ASSISTANT PROFESSOR** positions. One position will be responsible for the Tumor Vaccine Section in the Laboratory requiring experience with T-cell immunology, vaccines, dendritic cells, and liposomes and viral vectors. The second position will be responsible for the Human Cellular Immunology Section. Ongoing projects focus on immune reconstitution following transplantation with an emphasis on monocyte-mediated T-cell apoptosis. Both positions require experience in flow cytometry, immunoregulation, and molecular immunology. The third position will be responsible for studies on rational drug design of cytokines. The laboratory has several patents on the contact pharmacophores for chemokines and this program requires a Molecular Pharmacologist, preferably with experience in peptide chemistry, to direct its future activities. All applicants should have a Ph.D., M.D., or D.V.M. with two or more years of postdoctoral experience.

Send application with curriculum vitae, outline of research interests, and the names of at least three references to: **James E. Talmadge, Ph.D., Director of Transplantation Immunology, University of Nebraska Medical Center, Department of Pathology/Microbiology, 600 South 42nd Street, Omaha, NE 68198-3135.**

University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR—NEUROSCIENCE CEDAR CREST COLLEGE

Founded in 1867, Cedar Crest College is a four-year, independent liberal arts college for women. The beautiful 85-acre campus (a registered national arboretum) is located in the Lehigh Valley of Pennsylvania. The College is 90 miles from New York City and 60 miles from Philadelphia. Cedar Crest College emphasizes cross-disciplinary cooperation and excellence in undergraduate teaching.

The Psychology Department at Cedar Crest College seeks a tenure-track faculty member at the Assistant Professor level with a background in biopsychology. Applicants must have a Ph.D. and be committed to excellence in undergraduate teaching and research. The successful candidate will participate in the newly initiated neuroscience program that includes faculty from the Biology and Psychology Departments. Teaching responsibilities include psychopharmacology, general psychology, and participation in the team-taught introductory neuroscience course. In addition, maintaining an active research program with extensive undergraduate involvement is expected. Research projects confined to non-mammalian systems are preferred. Please submit curriculum vitae, a detailed statement of teaching philosophy and research goals, including how this research would involve undergraduates, copies of recent publications, and have three letters of recommendation sent to: **Dr. Ellis Honig, Chair, Department of Psychology, Cedar Crest College, 100 College Drive, Allentown, PA 18104.** Review of applications will begin February 15, 1998. *Equal Opportunity Employer.*

ASSISTANT PROFESSOR. The Biochemistry and Cellular and Molecular Biology Department at the University of Tennessee at Knoxville seeks a Geneticist studying problems in neurobiology. Opportunities for professional interaction include Geneticists and Neuroscientists in the department as well as at the University Hospital, the College of Veterinary Medicine, and the Life Sciences Division at Oak Ridge National Laboratory. Desired qualifications include several years of postdoctoral training, evidence of significant scientific productivity and of the potential to develop and maintain a vigorous, independent, and extramurally funded research program. Teaching responsibilities will include efforts at both the undergraduate and graduate level. For more information on the department visit the website: <http://utk-biogw.bio.utk.edu/bcmbdept.nsf>. Interested candidates should submit a résumé including research goals, as well as teaching experience and goals, and three letters of recommendation to: **Bruce McKee, Ph.D., Chair of the Search Committee, Biochemistry and Cellular and Molecular Biology Department, WLS M407, University of Tennessee, Knoxville, TN 37996-0840.** Review of applications will begin on February 15, 1998. *University of Tennessee at Knoxville is an Equal Employment Opportunity/Affirmative Action/Title VII/Title IX/Section 504/ADEA Employer.*

POSITIONS OPEN

ASSISTANT, ASSOCIATE, OR FULL PROFESSOR DEPARTMENT OF PHYSIOLOGY AND BIOPHYSICS

University of Arkansas for Medical Sciences

The Department of Physiology and Biophysics at the University of Arkansas for Medical Sciences (UAMS) invites applications for a full-time tenure-track faculty position at the rank of Assistant, Associate, or Full Professor. The department is most interested in individuals whose research complements the following existing strengths: regulation of activity, expression, targeting, or degradation of hormone or neurotransmitter receptors; cellular electrophysiology and membrane biophysics, including signal transduction, ion regulation, and membrane protein structure/function.

The successful candidate will be expected to develop a vigorous independent research program and to contribute to the educational programs of the College of Medicine and the Graduate School. Competitive start-up funds and new laboratory space will be provided. Candidates should submit curriculum vitae, statement of research interests, and the names and addresses of three individuals who may be contacted for letters of reference to:

**Michael L. Jennings, Ph.D., Chairman
Department of Physiology and Biophysics
University of Arkansas for Medical Sciences
4301 West Markham Street, Mail Slot 505
Little Rock, AR 72205**

UAMS is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and members of minority groups.

Eastern Michigan University announces a tenure-track **ASSISTANT PROFESSOR** position in biochemistry beginning fall 1998. Qualifications: Ph.D. in biochemistry or closely related field; evidence of ability to teach introductory chemistry courses as well as undergraduate and graduate courses in biochemistry; strong interpersonal skills and commitment to conduct research involving undergraduate and Master's students. Department of Chemistry is ACS-certified with 22 tenure-track positions, and has a tradition of excellence in teaching and collaborative student-faculty research. More about position and department at website: <http://www.emich.edu/public/chemistry/chmhome.htm>. Submit curriculum vitae, graduate and undergraduate transcripts, statement of teaching philosophy/experience, description of research plans; and have three letters of recommendation sent to: **Position F9846, 318 King Hall, Eastern Michigan University, Ypsilanti, MI 48197.** Review of applications will begin January 15. *Women and members of minority groups are encouraged to apply. Affirmative Action/Equal Opportunity Employer.*

PHYSICIST. The Department of Physics at Berry College invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level to begin August 1998. Berry College is a private, coeducational institution located in the Appalachian foothills region of northwest Georgia, one hour from Atlanta. Teaching responsibilities include introductory and upper-level physics and introductory astronomy. The department seeks an excellent teacher who will establish an ongoing research program involving undergraduates. Ph.D. required. Send curriculum vitae, transcripts, a brief statement of teaching philosophy and research interests, and the names and addresses of at least three references by 14 February 1998 to: **Dr. Malcolm McDonald, Department of Physics, Berry College, Mount Berry, GA 30149-5004.** E-mail: mmcdonald@berry.edu; website: <http://www.berry.edu/>. *Berry College is an Equal Opportunity Employer.*

MOLECULAR MICROBIOLOGIST. The Center for Biomedical Laboratory Science at San Francisco State University invites applications for a faculty position in biomedical laboratory science at the **ASSISTANT PROFESSOR** level. The candidate should have a relevant doctoral degree and teaching and research interests related to molecular microbiology. The successful applicant would be expected to maintain an active research program, direct student research, teach six units of graduate courses per semester, and serve on academic committees. Submit a curriculum vitae, three letters of recommendation, and a statement of research and teaching interests by February 16, 1998, to: **Dr. Diana Smith, Chair, Hiring Committee, Center for Biomedical Laboratory Science, San Francisco State University, 1600 Holloway Avenue, San Francisco, CA 94132.** *San Francisco State University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR MOLECULAR SYSTEMATICS AND EVOLUTION

The Department of Biology at Southwest Texas State University (SWT) invites applications for a tenure-track position in molecular systematics and evolution. We seek an individual who uses DNA technology to investigate phylogeny and evolution, who can teach courses in general entomology and freshman biology, and who can complement departmental expertise in biometry. Applicants must have a Ph.D.; postdoctoral experience is preferred. The successful candidate will develop an independent, externally funded research program involving M.S. and undergraduate students. The Biology Department consists of 33 faculty, 100 graduate students, and 1,300 undergraduate majors, and has strengths in aquatic biology, ecology, and cell/molecular biology. SWT, a comprehensive state university with over 20,000 students, is located at the headwaters of the San Marcos River between Austin and San Antonio. All applicants should send a curriculum vitae, statements of research and teaching interests, and a list of three references (with addresses, telephone numbers, and e-mail) to: **Dr. Francis Rose, Chair, Department of Biology, Southwest Texas State University, San Marcos, TX 78666-4616.** More can be learned about our department at website: <http://www.bio.swt.edu>. Review of applications begins February 15, 1998, and will continue until a suitable candidate is found. *SWT is an Affirmative Action/Equal Opportunity Employer, and is committed to increasing the number of women and minorities in faculty and administrative positions.*

ASSISTANT PROFESSOR IMMUNOLOGY, BIOLOGICAL SCIENCES SOUTHEASTERN LOUISIANA UNIVERSITY

Southeastern Louisiana is seeking applicants for a tenure-track Assistant Professor in immunology available August 1998. Qualifications: Ph.D. in biological sciences; postdoctoral experience preferred. Duties: Maintain an active research program in cellular immunology, direct undergraduate and graduate students. Teach courses in immunology, virology, genetics, and cell biology. Salary: Commensurate with experience and qualifications. Deadline for applications is February 1, 1998. Applicants should submit a curriculum vitae, summary of research interests and teaching philosophy, three current letters of reference, and a copy of all transcripts (originals required upon employment) to: **Dr. Gary T. Howard, Chair, Immunology Faculty Search Committee, Department of Biological Sciences, SLU 736, Hammond, LA 70402.** *Southeastern Louisiana University is an Affirmative Action/ADA/Equal Employment Opportunity Employer.*

The University of Michigan Department of Ophthalmology is seeking to add to its faculty an Eye Plastic and Reconstructive Surgery Subspecialist. Rank at the **ASSISTANT, ASSOCIATE, or PROFESSOR** level based on the individual's academic qualifications. Applicants must be certified by the American Board of Ophthalmology, must have taken subspecialty fellowship training in eye plastic and reconstructive surgery, and must have demonstrated interest and experience in patient care, education, and research. Individuals interested in this position should submit their curriculum vitae and bibliography to: **Paul R. Lichter, M.D., F. Bruce Fralick, Professor and Chairman, Department of Ophthalmology, The University of Michigan, W. K. Kellogg Eye Center, 1000 Wall Street, Ann Arbor, MI 48105.** *The University of Michigan is an Equal Opportunity and Affirmative Action Employer and actively seeks diversity in its applicant pool.*

FACULTY POSITION FACULTY OF HEALTH SCIENCES Ben-Gurion University of the Negev

The Faculty is searching for **BASIC SCIENCE RESEARCHERS** to join a multidisciplinary team (including epidemiologists, biostatisticians, and nutritionists) involved in nutrition research. Areas of interest can include nutrient-gene interaction and nutrition-related biomarkers in health and disease. Excellence in research, teaching, and ability to also develop independent research is essential. Curriculum vitae, statement of research plan, and three letters of reference should reach: **Professor Drora Fraser, Director, S. Daniel Abraham International Center for Health and Nutrition, Ben-Gurion University of the Negev, P.O. Box 653, Beer-Sheva 84965 Israel** by January 15, 1998. FAX: 972-7-6491763.

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Postdoctoral positions are available in the Department of Cell Biology for highly motivated and independent individuals interested in applying modern techniques in molecular and cellular biology to explore the molecular basis of obesity and Type II diabetes. The department consists of a highly interactive group of scientists dedicated to investigation of the basic mechanisms underlying metabolic, cardiovascular, neurological and proliferative diseases. Research opportunities are available in the laboratories of:

Todd Leff: Regulation of transcription by hormonal and metabolic signals

Robert MacKenzie: Central and peripheral mechanisms of body weight regulation

John H. 'Wick' Johnson: Islet function: Mechanisms of insulin secretion

Alan Saltiel: Mechanisms of insulin action; protein kinases and phosphatases

Applicants should be recent M.D. or Ph.D. graduates with a strong background in molecular and cellular biology, biochemistry, pharmacology, physiology or a related area. However, the overall ability, enthusiasm and motivation are more important than the precise nature of previous experience. Interactions with our colleagues at nearby University of Michigan and other academic institutions are encouraged.

Join a team of professionals and broaden your scientific career with Parke-Davis. Enjoy a new level of research freedom, competitive salaries and benefits. Interested scientists should mail, fax or e-mail a CV, cover letter and list of references to: **Human Resources, Job Code RJB-974165, Parke-Davis Pharmaceutical Research Division, 2800 Plymouth Road, Ann Arbor, MI 48105. Fax: (313) 998-3394. E-mail: resume@aa.wl.com**

*Submit CV on laser-quality white paper, with legible 10 point or larger type, and avoid boldface, italics, borders, etc.



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ASSISTANT/ASSOCIATE PROFESSORSHIP MOLECULAR GENETICS GEORGE WASHINGTON UNIVERSITY MEDICAL CENTER

The Department of Biochemistry and Molecular Biology is seeking a molecular geneticist for a tenure-track position. In keeping with the Medical Center's thrust toward interdisciplinary biomedical research, the candidate's research should augment, complement, or interface with one or more areas of research emphasis at GWU, including molecular and cellular oncology, neuroscience, virology, and cardiovascular biology. The successful applicant will have an outstanding record of research accomplishment which will be demonstrated in part by extramural funding. He or she will also be expected to actively participate in teaching basic and advanced molecular biology and genetics to both medical and graduate students. He/she will additionally be involved in research training of graduate students within one or two of the current Ph.D. programs administered through the GWU Institute of Biomedical Sciences. In addition to the Biochemistry Ph.D. and M.S. Programs, doctoral programs are offered in Genetics, Molecular and Cellular Oncology, Neurosciences, and Pharmacology. Faculty in these programs are located on the main campus of GWU, and at the nearby facilities of Children's National Medical Center in Washington, D.C., the Holland Laboratories of the American Red Cross in Rockville, MD, and NIH in Bethesda, MD, thus offering excellent opportunities for research collaborations and shared resources. Faculty rank and salary will be commensurate with prior experience. Applicants with a Ph.D. and/or M.D. degree and substantial postdoctoral experience should submit a curriculum vitae, a concise statement of research accomplishments and goals, a description of teaching experience, and the names, addresses, and phone numbers of three to five references to: **Dr. Valerie Hu, Chair, Faculty Search Committee, Dept. of Biochemistry and Molecular Biology, The George Washington University Medical Center, 2300 Eye St., N.W., Washington, D.C. 20037.** Review of applications will begin Jan. 1, 1998, and continue until the position is filled.

The George Washington University is an Equal Opportunity/Affirmative Action Employer.

Director Great Lakes Center for Environmental Research and Education Buffalo State College State University of New York

The Great Lakes Center for Environmental Research and Education (GLC) at Buffalo State College invites nominations and applications for Center Director. The successful candidate will have qualifications for a tenured faculty position, including a Ph.D. in a relevant discipline, as well as a proven record of research and external funding activity, teaching experience at the university level, and previous administrative experience. Experience with public outreach, program development, and knowledge of Great Lakes issues are desirable.

The mission of the GLC is to further enhance the college's role in environmental research, education, and community outreach pertaining to the unique ecological issues of the Great Lakes Basin. The GLC embraces the multidisciplinary nature of Great Lakes research and education (collegiate and pre-collegiate) and helps coordinate the activities of affiliated scientists and faculty in disciplines ranging from Toxicology and Aquatic Biology to Earth Sciences, Environmental Planning, and several of the Social Sciences. The Director will work to enhance interaction and external funding activity among Center affiliates and promote the GLC to various constituencies. The Director also will have administrative responsibility for our research vessels and newly renovated Aquatic Research Laboratory located on the Buffalo waterfront and will actively develop undergraduate and graduate research and education opportunities.

Candidates should submit a vitae with the names of at least three references and a letter of interest that outlines research, teaching, administrative, and outreach experience and philosophy to: **Kim N. Irvine and E. O. Smith, Co-chairs, GLC Director Search Committee, Great Lakes Center, Room HC215, Buffalo State College, 1300 Elmwood Avenue, Buffalo, NY 14222.** Applications must be received by January 30, 1998. The Director will take office no later than September 1, 1998, with an earlier assumption of duties preferred. Salary competitive. For further information about the GLC, visit our website at <http://www.buffalostate.edu/~glc/>. Applications from minorities and women are especially invited. *Buffalo State College is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ECOLOGIST OR EVOLUTIONARY ECOLOGIST

The Department of Biological Sciences at the University of Nevada, Las Vegas seeks applications for a tenure-track position at the **ASSISTANT PROFESSOR** level to start fall 1998. Candidates must have a Ph.D. (or equivalent) and postdoctoral experience is desired. We are particularly interested in individuals with current or intended research in arid lands and whose research interests complement existing areas in the department. The successful candidate will develop an externally funded research program. Teaching responsibilities will include both graduate and undergraduate courses. UNLV is located near the intersection of the Mojave, Sonoran, and Great Basin deserts and is also excellently situated in close proximity to broad elevational gradients (600 to 3,600 meters). Position is contingent upon funding and salary is commensurate with qualifications and experience. Completed applications should include a curriculum vitae, three representative publications, and separate statements of research and teaching interests. Send the above and three letters of recommendation to: **EEB Search, c/o Dr. Lawrence Walker, Department of Biological Sciences, University of Nevada, Las Vegas, Box 454004, 4505 Maryland Parkway, Las Vegas, NV 89154-4004.** Review of completed applications will begin January 20, 1998, and will continue until the position is filled. For more information, see the UNLV website: <http://www.unlv.edu>. *Affirmative Action/Equal Opportunity Employer. Minorities, women, veterans, and the disabled are encouraged to apply.*

MOLECULAR AND CELL BIOLOGY OF CANCER

A tenure-track position for an **ASSISTANT** or **ASSOCIATE PROFESSOR** is available in the Department of Microbiology and the Cancer Center at the University of Virginia Health Sciences Center. The Department of Microbiology has strengths in virology, immunology, molecular biology, and cell biology and the Cancer Center has an emphasis on translational research. Applicants may have a Ph.D. and/or M.D. and should have a demonstrated record of productivity in studies on the molecular and/or cell biology of cancer. The research environment at the University of Virginia encourages interactions between investigators and provides an opportunity for collaborative investigations which bridge disciplines or which interface between laboratory and clinical investigations. Please send curriculum vitae to: **Dr. Michael J. Weber, Chair, University of Virginia Molecular Oncology Search Committee, Box 441, Charlottesville, VA 22908.** The University of Virginia does not discriminate on the basis of race, sex, religion, or sexual preference.

GENETICIST

Tenure-track **ASSISTANT PROFESSOR** with a strong commitment to teaching. Ph.D. in genetics or related area completed by 24 August 1998. Strong background in genetics and research specialization in developmental biology required. Broad background in biology, prior teaching at the college level, and experience working with diverse groups are desirable. Duties: teaching undergraduate general genetics and general biology courses; teaching and developing other undergraduate/graduate courses in area of specialization; advising; engaging in scholarly activities; supervising undergraduate and graduate research; and serving on committees. Submit curriculum vitae, all transcripts, names and telephone numbers of three references, a statement of scholarly interests, and arrange to have three letters of recommendation sent to: **Laurel Heffernan, Chair, Biological Sciences, California State University, Sacramento, CA 95819-6077.** Website: <http://www.csus.edu/bios/>. Application deadline: January 30, 1998. *Affirmative Action/Equal Employment Opportunity.*

University of Florida seeks a **RESEARCH ASSISTANT PROFESSOR** in the Department of Medicine, Division of Endocrinology. Ph.D. degree with five (5) years of experience. Background in vascular cell biology, diabetes, lipoprotein, and lipid metabolism. Grant experience required. Recruiting deadline, December 18, 1997. Anticipated starting date, January 2, 1998. Salary and benefits commensurate with experience. Please reply to: **Desmond Schatz, M.D., Associate Professor, Division of Endocrinology, Box 100277 JHMH, Gainesville, FL 32610.** *An Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

IOWA STATE UNIVERSITY

PROTOZOOLIST. Tenure-track faculty position (**ASSISTANT PROFESSOR**) to develop an interdepartmental undergraduate program in global parasitology; appointments from entomology and zoology are available. The Ph.D. and expertise in molecular protozoology are required. Incumbent should have strong familiarity with pathogenic protozoa-caused disease in developing countries. There should be a commitment to develop an active research program on protozoa of international economic importance, and to use this program to provide opportunities for student experience. Preference will be given to candidates with experience with protozoal interactions with entomology and toxicology. Applicants should submit a letter of application, curriculum vitae, names of three references, and a summary of current research to: **Norman F. Cheville, Department of Veterinary Pathology, College of Veterinary Medicine, Iowa State University, Ames, IA 50011-1250.** Deadline for receipt of applications is February 15, 1997. *Iowa State University is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR (tenure-track), environmental toxicology, Penn State. The College of Agricultural Sciences and the Center for Molecular Toxicology invites applications for a faculty position at the level of Assistant Professor with expertise in molecular biology as related to the discipline of toxicology to join a dynamic group of faculty studying molecular mechanisms of toxicity. The candidate is expected to maintain an externally funded research project that should address basic aspects of any of the following areas: heavy metal, pesticide, reproduction, endocrine disruption, immunotoxicology, or other related areas. Excellent laboratory space and start-up package is available. The position is 80 percent research and 20 percent resident education. Submit curriculum vitae, a brief statement of research interests, and at least three references to: **Gary H. Perdew, Faculty Search Committee, The Pennsylvania State University, 115 Henning Building, University Park, PA 16802.** Review commences February 1, 1998; applications accepted until position is filled. *An Affirmative Action/Equal Opportunity Employer. Women and minorities encouraged to apply.*

ENDOWED CHAIR IN COGNITIVE NEUROSCIENCE. The Department of Psychology at the University of Southern California invites applications for a newly endowed HEDCO Chair in neurosciences. The position is appropriate for an internationally known scientist with an established program of innovative research. The holder of the chair will have an appointment in the Department of Psychology (website: www.usc.edu/dept/LAS/psychology) and in the university's program in neural, informational, and behavioral sciences (website: www.usc.edu/dept/nbio/nibs.html) and will join an active group of researchers in the neuro- and cognitive sciences. Applicants should send a letter of inquiry and curriculum vitae to: **Chair, Search Committee for HEDCO Neuroscience Chair, Department of Psychology, SGM 501, University of Southern California, Los Angeles, CA 90089-1061.** *Affirmative Action/Equal Opportunity.*

Longwood College seeks a tenure-track **ASSISTANT PROFESSOR** in biology beginning August 1998. Ph.D. required, teaching experience preferred. Commitment to quality teaching at the Bachelor's (biology) and Master's (environmental studies) levels. Areas of specialty desired: field, ecosystem, and population ecology (plant emphasis); floristics; biostatistics. Direction of Master's thesis work possible. Send complete application including curriculum vitae, statement of teaching philosophy and research goals, transcripts, and telephone numbers of three references to: **Dr. Carolyn Wells, c/o Human Resources, Longwood College, Farmville, VA 23909.** Review begins January 2, 1998. *An Affirmative Action, Equal Opportunity Employer.*

ASSISTANT PROFESSOR. Membrane transport. We seek an M.D. and/or Ph.D. scientist with at least three years of experience in the physiology and biophysics of membrane transporters to establish an independent research program in this field. Application deadline: January 15, 1998. Applications should be sent to: **Dr. Steven Gullans, Brigham and Women's Hospital, Harvard Institutes of Medicine, Room 554, 77 Avenue Louis Pasteur, Boston, MA 02115.** *Women and minorities are encouraged to apply. Affirmative Action/Equal Opportunity Employers.*

POSITIONS OPEN

FACULTY POSITION IN RADIOLOGY PENN STATE

The Milton S. Hershey Medical Center

The Pennsylvania State University, Department of Radiology is recruiting a research faculty member with training or experience in magnetic resonance imaging and spectroscopy. The position is open to Ph.D. researchers who have extensive experience in functional and high field MRI. Starting date: March 1, 1998. Hershey Medical Center is a 500-bed tertiary care facility in Hershey, Pennsylvania, near Harrisburg, the state capital. Medical student education, resident training, and research are integral components of the health care mission of the University. Applicants may respond with a letter of interest and curriculum vitae to: **Michael B. Smith, Ph.D., Chief, Center for NMR Research, Department of Radiology, H066, The Milton S. Hershey Medical Center, The Pennsylvania State University, 500 University Drive, Hershey, PA 17033.** *Affirmative Action/Equal Opportunity Employer.*

NEUROSURGERY UNIVERSITY OF MARYLAND

The Department of Neurosurgery at the University of Maryland Baltimore is recruiting for a **FACULTY POSITION** in cerebrovascular research. The successful applicant will assist in the development, implementation, and publication of research on vascular smooth muscle electrophysiology. The primary responsibility will be to perform patch clamping experiments on cerebral vascular smooth muscle cells. This position requires the ability to organize scientific results and design experiments to elucidate ion channel physiology.

Interested candidates should send a curriculum vitae, a statement of research interests, and three letters of reference by January 9, 1998, to: **J. Marc Simard, M.D., Ph.D., Professor, Department of Neurosurgery, University of Maryland, 22 South Greene Street, Suite S-12-D, Baltimore, MD 21201-1595.**

The University of Maryland Medical Center is an Equal Opportunity Employer, fostering diversity in the workplace.

GASTROENTEROLOGIST/HEPATOLOGIST. University of California, San Francisco (UCSF) at San Francisco General Hospital (SFGH). The Department of Medicine, UCSF invites applications for the position of **ASSISTANT/ASSOCIATE PROFESSOR** of Medicine in Residence in the Division of Gastroenterology at SFGH. We are seeking a Physician-Scientist with an interest in liver disease and a research background in immunology or inflammation. The position allows 80 percent time for bench research; 20 percent time will be devoted to clinical activity in general gastroenterology. Applicants must have an independent research program. Please forward a curriculum vitae and summary of research interests to: **D. Montgomery Bissell, M.D., University of California, San Francisco, Box 0538, San Francisco, CA 94143-0538.** *UCSF is an Affirmative Action/Equal Opportunity Employer. The University undertakes Affirmative Action to assure Equal Employment Opportunity for underutilized minorities and women, for persons with disability, and for Vietnam-era veterans and special disabled veterans.*

RESEARCH FACULTY

The Department of Pediatrics of the University of Pennsylvania School of Medicine, The Children's Hospital of Philadelphia, is recruiting for a **RESEARCH ASSISTANT PROFESSOR** in the Division of Endocrinology/Diabetes with knowledge in molecular and cellular biology with a research focus on growth factors. Address replies with curriculum vitae to: **Thomas Moshang, Jr., M.D., Division Chief—Endocrinology/Diabetes, 34th and Civic Center Boulevard, Philadelphia, PA 19104.** *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

TEL AVIV UNIVERSITY

A **TENURE-TRACK POSITION** will be available in the Department of Biochemistry. Qualifications include doctorate in a biological science, at least two years of postdoctoral training, and a research program in biochemistry with preference for structural biology and crystallography.

Candidates should send résumé and three letters of recommendation to: **Head of Biochemistry, Tel Aviv University, Tel Aviv 69978 Israel.** All applications received up to and including July 31, 1998, will be considered.

**UNIVERSITY OF NEW MEXICO
SCHOOL OF MEDICINE AND CANCER CENTER
MOLECULAR ONCOLOGY LABORATORY DIRECTOR**

The University of New Mexico School of Medicine, Department of Pathology, and the UNM Cancer Center are seeking an individual to serve as the Scientific Director of the Molecular Oncology Laboratory in the UNM Center for Molecular and Cellular Diagnostics. This individual will be responsible for the overall supervision of a laboratory program that has both a clinical diagnostic and a clinical research component. The laboratory serves as a national reference laboratory offering clinical molecular diagnostic tests, predominantly in the area of leukemia and lymphoma, and for NIH NCI-funded research programs in leukemia genetics and the molecular epidemiology of leukemia and other solid tumors. The Laboratory Director will be responsible for: 1) overseeing the clinical operation of the laboratory and supervising multiple technicians, 2) assisting with the development of new technologies for the detection of genetic mutations, 3) maintaining the laboratory certification and accreditation, and 4) participating in the training of students, residents, and fellows. The Laboratory Director will also have the opportunity to participate in and supervise various ongoing research projects and may serve as Co-PI on NCI grants, but is not expected to obtain independent funding. The minimum requirements for this position include: 1) a Master's Degree or Ph.D. in the biomedical sciences; 2) 1-3 years of directly related experience. Significant experience in molecular biology, prior supervisory experience, and prior experience in laboratory management are preferred. Experience with automated molecular technologies (PCR, sequencing) and Board eligibility/certification by the American Board of Medical Genetics or other national agencies are highly desired, though not required. Prior teaching experience and experience in laboratory certification/accreditation procedures are desirable. Ph.D. applicants are eligible for a non-tenure track Research Assistant Professor faculty appointment in the Department of Pathology. For best consideration, please submit a curriculum vitae, the names of three references, and a cover letter detailing experience by January 16, 1998, to: **Dr. Cheryl L. William, UNM Cancer Center, 900 Camino de Salud NE, Albuquerque, NM 87131; FAX: 505-272-8047.** *UNM is an Equal Opportunity Employer and Educator.*

**ASSISTANT PROFESSOR
Coastal Ecology Institute**



Required Qualifications: Earned Doctorate (Ph.D. or equivalent degree) in Marine Science or related field; publication record in peer-reviewed journals; evidence of scholarly activity at level of proposed rank. Additional Qualifications Desired: Ph.D. from a Research I university; teaching experience; grant and/or contract experience; existing grant and/or contracts: multidisciplinary research. Responsibilities: develop a program of externally funded research; research is expected to be reported in the peer review literature and meeting all grant/contract obligations; develop and teach courses at the graduate and undergraduate level in DOCS and general areas of coastal ecology and oceanography; service at unit, college, university, and national and international boards, committees, commissions, etc. Salary will be commensurate with qualifications and experience. Anticipated hire date is July 1, 1998. Application deadline is January 15, 1998, or until candidate is selected. Submit letter of application and résumé to:

**Dr. R. E. Turner, Director
Department of Coastal Ecology Institute
203B Coastal Studies Building
Louisiana State University
Ref: #000526
Baton Rouge, LA 70803
LSU IS AN EQUAL OPPORTUNITY/
AFFIRMATIVE ACTION EMPLOYER**

THE INSIDE TRACK

SCIENCE's new e-mail Job Alerts service allows you to receive advanced notification about new jobs appearing on SCIENCE Professional Network. If you're looking for a new position, or just testing the market, make Job Alerts part of your search...

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GLOBAL CAREER OPPORTUNITIES



آغا خان یونیورسٹی
THE AGA KHAN UNIVERSITY
Faculty of Health Sciences
Medical College

The Aga Khan University, Karachi is a private institution, committed to high international standards in research, teaching and hospital services.

**The Department of Physiology and
Pharmacology**

is offering two positions at the level of

- **ASSISTANT PROFESSOR**
- **SENIOR INSTRUCTOR**

for its active programs in research and teaching. Candidates with relevant research and/or teaching experience and a background in Pharmacology or a related area will be preferred. Salary and benefits will be commensurate with qualification and experience. If you are seeking professional growth and an excellent work environment, send your résumé with bibliography and three reference addresses before **January 31, 1998** to the **Personnel Director,**
**The Aga Khan University, P.O. Box 3500,
Karachi-74800, Pakistan.**

POSITIONS OPEN

ASSISTANT PROFESSOR IN BIOENGINEERING

The Department of Bioengineering at Clemson University invites applications for a tenure-track Assistant Professor position in the area of bioengineering with an emphasis on biomaterials and/or biotechnology.

Applicants must hold a Ph.D. or relevant terminal degree. Clemson University provides excellent research support facilities and clinical collaboration. To apply, send a curriculum vitae, a brief description of research plans, and the names, addresses, and telephone numbers of at least three references to: **Dr. Martine LaBerge, Chair, Faculty Search Committee, Department of Bioengineering, 401 Rhodes, Clemson University, Clemson, SC 29634-0905. Telephone: 864-656-5557; FAX: 864-656-4466.** Consideration of candidates will begin on March 15, 1998, and will continue until the position is filled.

Clemson University is an Equal Opportunity/Affirmative Action Employer and encourages applications from minorities and women.

UNIVERSITY OF FLORIDA

Seeks **ASSOCIATE PROFESSOR** and **CHIEF/PROFESSOR** and **CHIEF** for the Department of Medicine, Division of Gastroenterology, Hepatology, and Nutrition. M.D. degree, B.C. in internal medicine and gastroenterology, research experience. A Physician Investigator who has a well-established research program and who can direct the existing research training grant in gastroenterology is being sought. Existing program is well balanced in respect to providing excellent clinical care and performing both basic and clinical research. Qualified candidates should possess the abilities to lead and develop programs in research, education, and health care delivery. This is a tenure-track position. Salary and benefits commensurate with experience. Recruiting deadline: February 28, 1998. Anticipated starting date: July 1, 1998. Please submit curriculum vitae and other information to: **Dr. Frederick Southwick, Professor and Chief, Box 100277 JHMHC, Gainesville, FL 32610.** An Affirmative Action/Equal Opportunity Employer.

CLINICAL FACULTY TRANSPLANT NEPHROLOGIST. The Department of Internal Medicine, University of Michigan Health System, Ann Arbor is seeking a B.C./B.E. Nephrologist at the level of **ASSISTANT PROFESSOR** of medicine. The position could be in either the Clinical Scholar or Regular Clinical track. The candidate must be committed to transplant patient care as a member of a multidisciplinary team with a large, growing transplant population both in inpatient and outpatient management. Clinical research is encouraged and clinical teaching is required.

Please send letters of interest and curriculum vitae to: **Roger Wiggins, Department of Internal Medicine, University of Michigan Medical Center, 3914 Taubman Center, Ann Arbor, MI 48109-0364.** The University of Michigan is a nondiscriminatory, Affirmative Action Employer.

Institute of Fisheries Science, National Taiwan University, invites applications for a full-time position at the level of **ASSISTANT PROFESSOR OR HIGHER.** Candidates should have a demonstrated ability and outstanding potential for excellent research in genetics and breeding, cell biology, or embryology and development. A Ph.D. in biology or closely related fields with postdoctoral experience is essential. Please submit a curriculum vitae, a research proposal, reprints of publications, and a photocopy of the Ph.D. diploma and arrange for three recommendation letters on their behalf sent to: **The Chair, Prof. H. J. Tsai, Institute of Fisheries Science, National Taiwan University, Taipei, Taiwan 106** by 15 April 1998. Telephone: 886-2-3661540; FAX: 886-2-3685161; e-mail: fishing@cc.ntu.edu.tw.

FACULTY POSITION

ASSISTANT PROFESSOR. Forest genetics/silviculture, University of Minnesota. Tenure-track position, emphasis on tree breeding strategies and intensive silviculture. Deadline: Applications accepted until filled. Request a full position description from: **Dr. Robert Stine, Chair, Search Committee (Telephone: 218-879-0850 x115), Department of Forest Resources, University of Minnesota, St. Paul, MN 55108.** Telephone: 612-624-3400; FAX: 612-625-5212; e-mail: fr@forestry.umn.edu; website: <http://www.gis.umn.edu/fr>. The University of Minnesota is an Equal Opportunity Educator and Employer.

POSITIONS OPEN

DIRECTOR OF NASA ASTROBIOLOGY INSTITUTE

The National Aeronautics and Space Administration (NASA) is seeking a Director for its new Astrobiology Institute, which will be managed by Ames Research Center, located in Silicon Valley, California. Astrobiology is the study of the living universe, a multidisciplinary field that addresses fundamental questions concerning the origin, evolution, distribution, and future of life. The NASA Astrobiology Institute will represent a partnership between NASA and a number of academic or other research organizations to promote, conduct, and lead integrated interdisciplinary astrobiology research and train young researchers. The Institute will employ modern networks and information technology to bind together institutions and research teams in geographically separated locales. Additional information on astrobiology and the Institute can be found at website: <http://astrobiology.arc.nasa.gov>.

A leader is sought who can help define this new discipline, identify research opportunities, coordinate efforts involving multiple academic organizations, and communicate the excitement of astrobiology. The Director should also have a strong interest in developing revolutionary ways to use modern communications to foster effective collaborations among geographically dispersed scientists. The position will be filled through appointment to the Civil Service or through assignment under the Intergovernmental Personal Act. Applicants should have a record of original research in one or more of the disciplines associated with astrobiology, senior-level experience in academic or government administration, and commitment to develop innovative approaches to astrobiology research and training.

If interested, please send a letter of application by January 30 describing your leadership and research abilities and your ideas for the Astrobiology Institute, together with a curriculum vitae, to: **Dr. Henry McDonald, Director of Ames Research Center, Moffett Field, CA 94035.** Female or minority applicants are encouraged to apply.

RESEARCH ASSOCIATE position available immediately to study the hormonal regulation of reproduction in farmed fish, including the study of brain and pituitary hormones, their interactions, and their mechanisms of action. Research will focus on the study of the molecular endocrinology of fish reproduction. Grant and manuscript writing, leadership skills, and good work ethic are essential. Qualified candidates should forward a letter of application, curriculum vitae, and the names and addresses of three references to: **Ms. Tyra Burman, Position YZ 97-2, University of Maryland, Center of Marine Biotechnology, 701 East Pratt Street, Baltimore, MD 21202.** FAX: 410-234-8896. The University of Maryland is an Equal Opportunity/Affirmative Action Employer.

Harvard University. The Department of Psychology anticipates making an appointment at the **ASSISTANT** or (untenured) **ASSOCIATE PROFESSOR** level to begin July 1, 1998, in the area of behavioral neuroscience. Candidates with strong research and teaching interests in this area are invited to submit a curriculum vitae, representative reprints, and have at least three letters of recommendation sent to: **Beverly Douhan, Department of Psychology, 33 Kirkland Street, Cambridge, MA 02138.** Applications should be received by February 15, 1998. Applications from women and members of minority groups are especially welcome. Harvard University is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR of biology to teach field biology courses, genetics, general biology, and interdisciplinary science general education courses; conduct research involving undergraduates. Demonstrated expertise in animal field biology and molecular genetics. For details contact: **Dr. Ann Henninger, Wartburg College, Waverly, IA 50677.** FAX: 319-352-8606; e-mail: ahenninger@wartburg.edu. Wartburg is an accredited four-year, coeducational liberal arts college of the Lutheran Church (ELCA). Equal Opportunity/Affirmative Action Employer.

IS THIS YOUR ONCE IN A LIFETIME OPPORTUNITY

Small, established Los Angeles biotech company seeks creative **RESEARCH DIRECTOR** with entrepreneurial flair. Substantial equity position available for individual with marketable ideas. Please FAX curriculum vitae in absolute confidence to: **FAX: 310-657-4222, Attn: Mr. Cole.** All applicants will receive a reply.

POSITIONS OPEN

Washington University invites applications for the non-tenure-track position of **STATION MANAGER** for Tyson Research Center. The Tyson Research Center is a fenced, 2,000-acre tract of oak-hickory forests on a karst landscape surrounded by another 5,500 acres of preserved land. Although on the boundary of the Ozarks, Tyson is located only 20 miles from the main campus and on the edge of the 16th largest metropolitan area in the United States. Tyson offers a unique opportunity to identify the processes that affect biodiversity and ecosystem functioning in urban-suburban settings that will provide a scientific basis for maintenance and restoration of biodiversity within nature reserves.

The Station Manager will be responsible for administering the physical facilities and station operation (with a staff of three), supervising an ongoing outreach program that involves 5,300 K-12 students from the metropolitan area (a staff of three, plus volunteers), and facilitating the use of the station by the academic community and other appropriate agencies. Of particular importance is the encouragement of research in environmental sciences and biology, including research initiated by the candidate. Candidates must have a Master's or Ph.D. degree and experience with field stations. This is a 12-month appointment, with a competitive salary depending upon qualifications and experience. Letters of application should be accompanied by a curriculum vitae and a brief statement of experience and research interests. Applicants should also arrange to have three letters of recommendation sent to:

**Jonathan B. Losos
Chair, Tyson Search Committee
Department of Biology
Campus Box 1137
Washington University
1 Brookings Drive
St. Louis, MO 63130-4899**

All applications should be received by February 6, 1998. Washington University is an Affirmative Action/Equal Opportunity Employer. We are particularly interested in qualified women and minority applicants.

OCEANOGRAPHY RESEARCH SCIENTIST

Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor, Maine, invites applications for two new **PRINCIPAL INVESTIGATOR** positions. Bigelow seeks to fill one of the positions in the area of ocean optics/remote sensing. Both positions, however, are open to any subdiscipline in oceanography that complements the broad mission and current strengths of our institution. The successful candidates will maintain active, externally funded research programs. More information about Bigelow Laboratory can be obtained from our website: <http://www.bigelow.org>.

Bigelow Laboratory provides partial Principal Investigator salary support, which can be supplemented by participating in educational offerings such as formal courses, seminars, and internships. Bigelow is an affiliate of the University of New England in Biddeford, Maine.

To apply, please send a letter expressing your research interests, along with a copy of your curriculum vitae and the names of three references to: **Chair, Principal Investigator Search Committee, Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor, ME 04575.** Telephone: 207-633-9600. Review of candidates will begin December 15, 1997. Bigelow Laboratory is an Equal Opportunity Employer.

STAFF POSITION

The Division of Pathology and Laboratory Medicine of The Cleveland Clinic Foundation is seeking candidates for **SECTION HEAD OF CLINICAL MICROBIOLOGY** in the Department of Clinical Pathology. The Section Head will serve as Director of the Clinical Microbiology Laboratory. Completion of an accredited fellowship in clinical microbiology is desirable. The candidate may be either a Physician or Ph.D. with appropriate specialty certification.

Send letter and curriculum vitae to:

**Raymond R. Tubbs, D.O., Chairman
Department of Clinical Pathology
The Cleveland Clinic Foundation
9500 Euclid Avenue, L11
Cleveland, OH 44195
FAX: 216-444-4414
E-mail: tubbsr@po.lab.ccf.org**

1998 MBL MICROBIOLOGY COURSES

WOODS HOLE, MASSACHUSETTS

Microbial Diversity, June 14 - July 30, 1998

For graduate students, postdocs, and established investigators who want to become competent in microbiological techniques for working with a broad range of microbes; and, become familiar with modern molecular genetic approaches for recognizing both possible affinities of as yet uncultivated bacteria and for understanding putative phylogenetic relationships. Limited to 20 students. Directors: **Edward R. Leadbetter**, University of Connecticut; and **Abigail Salyers**, University of Illinois. Application Deadline: March 2. Tuition: \$3,750.

Molecular Mycology: Current Approaches to Fungal Pathogenesis, August 9 - 29, 1998

This course provides state-of-the-art training in molecular methods for fungal pathogens important in human disease. Intended for advanced graduate students, postdocs, and independent investigators. Limited to 16 students. Director: **Aaron P. Mitchell**, Columbia University. Application Deadline: April 14. Expected Course Fee: \$2,000 (room & board offered at no additional charge).

Substantial financial aid is available. Admission to MBL courses is determined by review committee appointed for each individual course, based upon information submitted in candidate applications. Women and minorities are encouraged to apply.

For application forms and information contact: **Admissions Coordinator, Marine Biological Laboratory, 7 MBL Street, Woods Hole, MA 02543-1015. Phone: (508) 289-7401**
• E-mail: admissions@mbi.edu • Web: <http://www.mbl.edu>.



MARINE
BIOLOGICAL
LABORATORY

GLOBAL CAREER OPPORTUNITIES

Faculty Positions in Life Science

The Department of Life Science at National Yang-Ming University has two faculty positions available immediately, with one position each, specifically, in the fields of Bio-organic Chemistry and Developmental Biology. Candidates in each field are expected to teach undergraduate courses in Organic Chemistry/Biochemistry and Developmental Biology, respectively. The ability to teach courses in affluent Mandarin is essential. Preference will be given to those who have postdoctoral and/or teaching experience. Please forward curriculum vitae, recent publications, research plan, and three letters of recommendation to the following address before January 10, 1998.

Ming-Ta Hsu, Ph.D., Chair
Department of Life Science
National Yang-Ming University
Shipai, Taipei
Taiwan, ROC
TEL: 886-2-820-1854
FAX: 886-2-820-1886
E-mail: mth@dns.ym.edu.tw



Pharmaceuticals

Laboratory leader in cardiovascular pharmacology

Who we are

Hoffmann-La Roche, one of the world's leading pharmaceutical companies, has a long-standing reputation for successful and innovative drug development. As part of an expanding commitment in the cardiovascular area, Roche's preclinical cardiovascular department in Basel, Switzerland, is seeking a talented, motivated and energetic individual as a laboratory leader.

The position

You will join a group concentrating on the role of voltage-gated ion channels in the cardiovascular system and participate in developing new drugs that act on K channels. In particular, you will be responsible for heading an electrophysiology laboratory contributing to the development of animal models and the discovery of new chemical entities.

Who you are

You must have a PhD in the biological sciences, physics or engineering. Postdoctoral studies in a field relevant to the proposed research is required. A strong background in electrophysiology (patch- and voltage-clamp methods) is a prerequisite. In addition, some skills in cardiac electrophysiology, molecular biology and cell preparation from cardiovascular tissues would be an advantage. Applicant need to be fluent in English.

Whom to contact

If the above profile fits your background and experience and you are interested in this challenging position, please forward your application, with full supporting documentation, to our Human Resources Department, Attn Mr. W. Aschwanden, F. Hoffmann-La Roche Ltd, PO Box, CH-4070 Basel, quoting reference As454. For further information, please contact Dr. E. Ertel, Tel +41 61 688 68 79

POSITIONS OPEN

POSITION AVAILABLE IN BIOLOGICAL APPLICATIONS OF NANOFABRICATION TECHNOLOGY

The National Nanofabrication Users Network (NNUN), is a collaboration of five university nanofabrication facilities (Cornell, Howard, Penn State, Stanford, and University of California-Santa Barbara). NNUN is funded by the NSF and user fees. Recognizing the increasing demand for nanofabrication support to the scientific and engineering community, NNUN seeks to add an additional staff member, to be located on the East Coast.

This staff member will play a hands-on role supporting biology and biomedical users. Support will include training and guidance, and process development for biological applications. They will also play a key outreach role in helping to raise awareness of the potential of nanofabrication among the biology community. Recent applicants need not reapply unless there has been a significant and material change in their dossier.

The appointment will be for three years (renewable). Successful candidates will hold the Ph.D. or M.D. in a relevant biology or biomedical field, or will hold the Ph.D. in engineering or a physical science with a strong background and interest in a relevant area of biology. Hands-on clean room experience in nano- or microfabrication would be a strong plus. Salary and rank commensurate with background and experience. Some travel required.

Please submit applications to: **Alton H. Clark, Interim Director, Cornell Nanofabrication Facility, Knight Laboratory, Cornell University, Ithaca, NY 14853.**

MICROCOMPUTER/BIOINFORMATICS SPECIALIST

This position will involve serving as an expert in the area of bioinformatics in the Michigan State University-DOE Plant Research Laboratory and the Department of Botany and Plant Pathology at Michigan State University. The successful candidate should possess a M.Sc. or Ph.D. in plant biology or related discipline, have some interest or experience in bioinformatics, have experience working with commonly used sequence analysis programs, and, although this is not a wet lab position, two to three years of molecular biology lab experience. The candidate should also have demonstrated work experience with microcomputers. The position does not involve individual research or involvement in faculty research projects. Salary commensurate with education and experience. To assure consideration, applications should be received by January 19, 1998. Please forward a cover letter specifying your interests, qualifications, curriculum vitae, and two letters of recommendation to: **Computer Search Committee, c/o Ms. Michelle Baker, Department of Botany and Plant Pathology, Michigan State University, East Lansing, MI 48824-1312.**

Saint Louis University, a Catholic Jesuit Institution dedicated to education, research, and healthcare, is seeking applicants for two full-time academic appointments in the Department of Internal Medicine, Division of Endocrinology, Diabetes, and Metabolism. One for the **INVESTIGATOR/CLINICIAN** track, an individual with M.D. degree who is Board-certified in endocrinology and has developing or established expertise in the biology of metabolic disorder with demonstrable excellence in teaching and patient care. The second position is for the **RESEARCH** track, an individual with Ph.D. or M.D.-Ph.D., with established expertise in molecular biology, especially in gene cloning. Interested candidates should send a curriculum vitae to: **Arshag D. Mooradian, M.D., Director of Endocrinology, St. Louis University, 1402 South Grand Boulevard, St. Louis, MO 63104.** Saint Louis University is an Affirmative Action/Equal Opportunity Employer and encourages nominations of and applications of women and minorities.

RESEARCH MOLECULAR BIOLOGIST/ENZYMOLOGIST position at University of California, San Francisco available immediately to study the nature of the intra and extra membrane interprotein interactions between cytochrome P450 and its redox partners. A Ph.D. in a related discipline and experience with site-directed mutagenesis critical. Knowledge of protein purification, protein modeling, and kinetics helpful. Send résumé and three letters of reference to: **Dr. Waskell, University of California, San Francisco, Box 0648, San Francisco, CA 94143.** E-mail: lucy.waskell@quickmail.ucsf.edu.

POSITIONS OPEN

PROGRAM COORDINATOR

Regeneron Pharmaceuticals, Inc. in Tarrytown, New York, is a leader in the application of molecular and cell biology to discover novel potential therapeutics for human medical conditions.

An opportunity exists for someone to handle the administration (non-research) of a specific Research Program. Duties will include project management (timelines, budgets, reporting, etc.), administering collaborations with external investigators, corporate partners, and consultants, and acting as liaison with Regeneron's intellectual property group.

Qualified candidates will have an M.S. in molecular or cell biology plus experience in program management. Excellent organizational, interpersonal, communication, and writing skills are essential. Computer proficiency is required.

Candidates should mail or FAX an application letter and résumé with salary requirements to: **Regeneron Pharmaceuticals, Inc., Bin EB-SCI 777 Old Saw Mill River Road, Tarrytown, NY 10591.** FAX: 914-347-2113. Only candidates selected for interview will be contacted. *Equal Opportunity Employer/Minorities/Females/Veterans/Disabled.*

ENVIRONMENTAL SPECIALIST IV POSITION #43040481

Location: Palatka, Florida. Salary Range: \$36,300 to \$61,700. This is an independent professional position involving advanced field work and data analysis, to determine minimum levels on lakes and minimum flows on river systems. Duties include: applied ecological research, long-term biological monitoring efforts, ecological data analysis, project plan development, and/or contract development, and management for work on priority aquatic and wetland systems. Qualifications: a Bachelor's degree in biology, limnology, chemistry, botany, or environmental science and five years of professional experience in the environmental field. Preference will be given to candidates with advanced education, training, or experience in statistical analyses, hydric soils and soil science, fisheries biology, wetland ecology, aquatic biology, and/or instream flows methods (i.e., IFIM). Send résumé indicating source of advertisement and position number by January 9, 1998, to: **St. Johns River Water Management District, P.O. Box 1429, Palatka, FL 32178-1429.** Website: <http://sjr.state.fl.us/info/hr/posting.htm>. *Equal Employment Opportunity/Veterans preference/Drug-free workplace.*

VECTOR BIOLOGIST

The Department of Entomology invites applications for a tenure-track (nine and a half months) position of **OPEN RANK**. The candidate will provide leadership in the department's graduate program in vector biology. All aspects of vector biology are of interest including research with cellular/molecular, genetic, ecological, or evolutionary perspectives on the study of the interactions between insect vectors and plant or animal pathogens. Teaching at both the graduate and undergraduate levels is expected. Starting date is negotiable. Ph.D. in an area of relevance to vector biology. Salary commensurate with experience and rank.

Applicants should submit a curriculum vitae, a letter of application, a statement of teaching interests and research plans, and a list of five referees with addresses and telephone numbers. For best consideration, applications should be sent by February 1, 1998, to: **Chair, Vector Biology Search Committee, Department of Entomology, 4112 Plant Sciences Building, University of Maryland, College Park, MD 20742-4454.**

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

DEVELOPMENTAL BIOLOGIST

A tenure-track position is available at the **ASSISTANT PROFESSOR** level for a Developmental Biologist. Teaching responsibilities will include an elective course in developmental biology, sharing a general genetics course, contribution to the freshman curriculum, and opportunity to develop a graduate course in the candidate's area. A Ph.D. is required and an active research program is expected. By February 11, 1998, submit curriculum vitae, statements of teaching philosophy and research plans, and the names of three references to: **Dr. Paul Hamilton, Department of Biology, University of Central Arkansas, Conway, AR 72035.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

DIRECTOR EXPERIMENTAL RADIATION ONCOLOGY WAKE FOREST UNIVERSITY School of Medicine

The Department of Radiation Oncology at the Wake Forest University School of Medicine invites applications for the position of Director, Experimental Radiation Oncology. The individual selected will direct the growing basic and translational research efforts of the Department as well as assume a leadership role in the Basic Science component of the Comprehensive Cancer Center of the Wake Forest University School of Medicine. The NCI-funded Center includes Programs in DNA Damage and Cellular Defense, Molecular Diagnosis and Therapeutics, Cancer Control, and Breast Cancer. Additionally, a multidisciplinary Neuro-Oncology Center of Excellence is currently being organized. The Director will have the authority to recruit at least two new faculty members to complement the research interests of the Division. This position includes an outstanding resource package containing generous start-up funds and laboratory space.

The Wake Forest University School of Medicine is located in Winston-Salem, North Carolina and is associated with the North Carolina Baptist Hospital and Brenner Children's Hospital. The community has excellent public and private schools, active arts and theater, and a climate that encourages year-round outdoor activities.

The ideal candidate should be a nationally recognized researcher in cancer biology with an emphasis on radiation biology. The candidate should possess a Ph.D. or an M.D.-Ph.D. with the academic background and leadership qualities to ensure vigorous growth of the Section as well as establish collaborative interactions within the thematic context of the Comprehensive Cancer Center. Applicants should submit a letter of inquiry and curriculum vitae by January 31, 1998:

Edward G. Shaw, M.D.
Chairman, Department of Radiation Oncology
Wake Forest University School of Medicine
Bowman Gray Campus
Medical Center Boulevard
Winston-Salem, NC 27157-1030
E-mail: eshaw@bgsm.edu

An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS IN MICROBIOLOGY, IMMUNOLOGY, AND DEVELOPMENT

The Department of Microbiology and Immunology, University of British Columbia, Vancouver, Canada has several vacancies for Postdoctoral Fellows. All of these positions require experience with molecular biology techniques. The following projects are available.

(1) Studies on the regulation of gene expression in B lymphocytes in the laboratory of **Dr. Mike Gold.**

(2) Studies on the function and molecular interactions of the *rap* gene product during the growth and differentiation of *Dictyostelium* in the laboratory of **Dr. George Spiegelman** and **Dr. Gerry Weeks.**

(3) Studies on the function and molecular interactions of CD45 in the immune system in the laboratory of **Dr. Pauline Johnson.**

(4) Studies on the polysaccharide degrading enzymes of the bacterium *Cellulomonas fimi* in the laboratory of **Dr. Tony Warren** and **Dr. Doug Kilburn.**

Please submit applications, indicating which of the four positions is of interest, and have two referees send letters of reference to: **Dr. G. Weeks, Professor and Head, Department of Microbiology and Immunology, University of British Columbia, #300 6174 University Boulevard, Vancouver, British Columbia V6T 1Z3 Canada.** E-mail: gweeks@unixg.ubc.ca.

TEMPORARY ASSISTANT RESEARCH SCIENTIST position available to study the parasitic ciliate *Ichthyophthirius multifiliis*, a pathogen of freshwater fishes. Research will focus on the characterization and expression of genes encoding protective antigens and the host immune response (see *Parasitology Today* 13:477-480, 1997). A creative individual who can work at the molecular, cellular, and the whole organism level is sought. Qualifications include a Ph.D. with experience in recombinant DNA techniques, cellular biology, and immunology. Candidates should forward a letter of application, curriculum vitae, and the names of three references by January 15, 1998, to: **Dr. Harry Dickerson, Department of Medical Microbiology and Parasitology, College of Veterinary Medicine, University of Georgia, Athens, GA 30602-7371.** E-mail: hwd@calc.vet.uga.edu. *Affirmative Action/Equal Opportunity Employer.*



**DIRECTOR,
Division of Scientific Research**

CRS4 (Center for Advanced Studies, Research and Development in Sardinia) is seeking an outstanding scientific leader to serve as Director of the Division of Scientific Research.

Located in Cagliari (Sardinia, Italy), CRS4 is an interdisciplinary applied research center with a staff of over 90 researchers. CRS4's activities are focused on the development and application of advanced simulation techniques for large-scale computational problems and on the development of innovative applications in the field of information and communications technology.

The Division of Scientific Research currently has a staff of about 50 researchers working in 6 research Groups:

- Computational Fluid Dynamics
- Waves, Materials, and Structures
- BioMedical Applications
- Combustion and Chemical Processes
- Environment
- Geophysics

The Director of the Scientific Research Division will provide scientific and professional leadership, managing relations between research staff and top management, and elaborating and implementing research goals and strategies. The Director will also be responsible for attracting public and private funding and establishing collaborations with other research laboratories and industrial partners. The Director will report to the Chief Executive Officer.

Applicants must be internationally recognized for scientific achievement, with demonstrated ability to manage scientific and/or technological projects, to attract funding for these projects, and to collaborate successfully with industry. Scientific expertise, as evidenced by publications, must include areas pertinent to the Division of Scientific Research of CRS4.

Applicants' abilities must be commensurate with the role of Director of a multidisciplinary division whose activities are centered around research, training, and consulting in the areas of modeling and scientific computation. Applicants must moreover have excellent knowledge of recent developments in information technology and computing hardware.

All candidates should submit an application including curriculum vitae, professional experience and achievements, list of publications and research grants, and the names, addresses, and facsimile numbers of three referees to:

Chair
Director of Scientific Division
Search Committee
c/o Filippo Pinna
CRS4
Via Nazario Sauro 10
I-09123 Cagliari, Italy

Applications will be accepted until the position is filled. Evaluation of candidates will begin immediately.

For further information, see <http://www.crs4.it/>.



Pharmaceuticals

***Two-year postdoctoral positions in
cardiovascular and CNS pharmacology***

Who we are

Hoffmann-La Roche, one of the world's leading pharmaceutical companies, has a long-standing reputation for successful and innovative drug development. One of the missions of our preclinical research department is to investigate novel approaches to drug therapy. In pursuit of that mission, we are currently looking for talented, motivated and energetic individuals to fill the following positions:

Postdoctoral scientist – molecular pharmacology

We have an opening for a molecular biologist in the cardiovascular field. The successful candidate will contribute to the development of novel drugs acting on ion channels by cloning and characterizing new voltage-gated Ca channels.

Applicants must have a PhD in molecular biology and extensive experience in state-of-the-art molecular biology techniques, including some experience with cloning methods. Additional knowledge of electrophysiology would be an advantage.

Postdoctoral scientist – cardiovascular electrophysiology

A position in electrophysiology is available in a laboratory concentrating on the role of voltage-gated K channels in the cardiovascular system. As part of efforts to develop new drugs acting on K channels, the successful candidate will characterize specific K channels and study the activity of new chemical entities on these and other channels.

Applicants must have a PhD and a solid background in cellular electrophysiology (patch-clamp or oocyte voltage-clamp methods). Experience in cell preparation from cardiovascular tissues and/or molecular biology would be welcomed.

Postdoctoral scientist – CNS electrophysiology

A third appointment is being offered to an electrophysiologist with experience in the field of ligand- and voltage-gated ion channels in the central nervous system. The position involves using biophysical and pharmacological techniques, with particular emphasis on the characterization of NMDA receptor subtypes.

For this position, we are seeking a PhD with a strong background in electrophysiological methods, including patch-clamp and oocyte voltage-clamp techniques, and with some experience in cell preparation from CNS tissues and/or molecular biology.

Applicants need to be fluent in English.

Whom to contact

If you are interested in any of these challenging positions and the profile fits your background and experience, please forward your application, with full supporting documentation, to our Human Resources Department, Attn Mr. W. Aschwanden, F. Hoffmann-La Roche Ltd, PO Box, CH-4070 Basel, quoting reference As456. For further information, please contact Dr. E. Ertel, Tel: +41 61 688 68 79.

POSITIONS OPEN

UNIVERSITY OF ILLINOIS AT CHICAGO NUTRITION SCIENTIST

The Department of Human Nutrition and Dietetics (HND) at the University of Illinois at Chicago is seeking applications for a tenure-track faculty position, **RANK OPEN**. Senior scientists with an interest in helping to shape an emerging doctoral program are encouraged to apply. Promising junior faculty will also be given serious consideration. The position requires a Ph.D. and/or M.D. degree and a record of funded research and publication in nutritional biology. The successful candidate's responsibilities will include effective undergraduate and graduate teaching in nutritional sciences, advising on M.S. and Ph.D. theses, and the development or continuation of an externally funded research program. Research interests should complement existing strengths within HND, or other departments in the University, in areas of micronutrient metabolism, free radical injury, cancer biology, lipid and lipoprotein metabolism, diabetes, and obesity. Candidates interested in clinical studies as well as those interested in applying modern biomedical technologies are encouraged to apply. Interested applicants should submit a cover letter and curriculum vitae by January 31, 1998, to: Charles L. Baum, M.D., M.S., University of Illinois at Chicago, Department of Human Nutrition and Dietetics, 1919 West Taylor, M/C 517, Chicago, IL 60612. FAX: 312-413-0319. *University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.*

PART-TIME MICROSCOPE SALES/SCIENTISTS

Manufacturer of a new, high-resolution optical 3-D microscope seeks Microscopists with discretionary time interested in supplementing income through equipment sales and application development. Ideal candidate will continue to perform research in a discipline benefiting from 3-D analysis. Compensation based on ability to develop and publish new applications for technology and to assist in sales of microscopes to other scientists.

Send résumé to:

InGen Corporation
235 Montgomery Street
Suite 300
San Francisco, CA 94104

The Laboratory of Genetics, Rockefeller University, seeks a Physician-Scientist at the level of **POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE**. Applicants must have at least five years of postdoctoral training in basic science with particular emphasis on prokaryotic genetics and molecular biology and be Board-certified in infectious disease (preference will be given to applicants with peer-reviewed publications in the field). The successful candidate will be expected to continue an ongoing research program in the characterization of Type III secretion systems in Gram-negative bacteria and filamentous phage assembly.

Applicants should send a curriculum vitae and a statement of research interests to: Administrator, Laboratory of Genetics, Rockefeller University, Box 302, 1230 York Avenue, New York, NY 10021.

POSTDOCTORAL RESEARCH ASSOCIATE positions available to study neurosecretion or expression and targeting of ion channels. Imaging of GFP-tagged proteins is being combined with molecular biology and patch clamping to investigate peptide release and long-term control of excitability in neurons and cardiac cells. Experience with molecular techniques, imaging, or electrophysiology preferred. Send curriculum vitae, names of three references, and letter describing interests to: Edwin S. Levitan, Ph.D., E1351 BST, Department of Pharmacology, University of Pittsburgh, Pittsburgh, PA 15261. E-mail: levitan@server.pharm.pitt.edu. *The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.*

DIRECTOR OF BIOCHEMISTRY RESOURCE

A Ph.D.-M.D. or comparably experienced person is needed to direct and maintain a resource including automated Edman, peptide and combinatorial chemistries and mass spectrometry. Successful applicants will have prior experience in relevant chemistry and operation of advanced instrumentation, and potential for management of a multi-user resource. Interested applicants should send a curriculum vitae and the names of three references to: D. M. Watterson, P.O. Box 118126, Chicago, IL 60611. *Northwestern University is an Affirmative Action/Equal Opportunity Institution.*

POSITIONS OPEN

POSTDOCTORAL POSITION RECEPTOR-MEDIATED ENDOCYTOSIS

Postdoctoral position is available immediately to study receptor-mediated endocytosis in rat hepatocytes and human hepatoma mutant cell lines. The research is a NIH-supported Program Project (PI: Dr. Allan Wolkoff) directed at understanding the molecular mechanisms involved in vesicle-based protein trafficking during receptor-mediated endocytosis pathways with an emphasis on the role of microtubules and motor molecules. Experience in immunofluorescence, confocal microscopy (including real-time) and computer-based image processing. Knowledge of cell biology is preferable but not essential. An analytical imaging center with advanced instrumentation ([website: www.ca.aecom.yu.edu/aif/](http://www.ca.aecom.yu.edu/aif/)) and facilities in the Departments of Pathology, Anatomy, and Structural Biology and Liver Research Center are available for these investigations. Send curriculum vitae and references to:

Phyllis M. Novikoff, Ph.D. or Dr. Allan Wolkoff
Albert Einstein College of Medicine
Jack and Pearl Resnick Campus
1300 Morris Park Avenue
Bronx, NY 10461
E-mail: novikoff@aecom.yu.edu or
wolkoff@aecom.yu.edu
FAX: 718-430-2488.

Equal Opportunity Employer.

UNIVERSITY OF MICHIGAN POSTDOCTORAL POSITION Free Radicals/Nitric Oxide Synthase/ Inactivation and Turnover

Postdoctoral position now available for Ph.D. in biochemistry, pharmacology, or related field to study the interaction of free radicals with hemoproteins, such as nitric oxide synthase. Collaborative studies with researchers at University of Michigan and nearby Parke-Davis. Desired: strong biochemical background, research experience with publications on cellular regulation of enzymes, familiarity with analytical techniques, some experience with molecular genetics. Send curriculum vitae and reference names, addresses, and telephone numbers to: Dr. Y. Osawa, Department of Pharmacology, Medical School, University of Michigan, Ann Arbor, MI 48109-0632. FAX: 313-763-4450; Telephone: 313-936-5797; e-mail: osawa@umich.edu.

POSTDOCTORAL FELLOW JOHNS HOPKINS SCHOOL OF MEDICINE MOLECULAR ENDOCRINOLOGY

Postdoctoral position available to study androgen receptor interactions with coactivators and corepressors in prostate cancer. Experience and skills in molecular biology and biochemistry required. Send curriculum vitae and ask three references to send letters of recommendation to: Evelyn R. Barrack, Ph.D., Johns Hopkins School of Medicine, Urology and Oncology, 600 North Wolfe Street, Marburg 115, Baltimore, MD 21287-2101. FAX: 410-955-0833; e-mail: ebarrack@gwgate1.jhmi.jhu.edu.

POSTDOCTORAL POSITIONS available for three years to study the genetic alterations in human ovarian cancer, the role of AKT2 oncoprotein (a serine/threonine kinase) in human oncogenesis (J. Q. Cheng), and molecular mechanism of regulation of ovarian surface epithelial cells and ovarian cancer cells by estrogens (W. Bai). These positions require background in molecular and cellular biology. Experience in gene cloning, signal transduction cell cycle regulation, and protein-protein interaction preferred. Send curriculum vitae and names of three references to: Dr. Jin Q. Cheng and Dr. Wenlong Bai, University of South Florida, Department of Pathology, MDC Box 11, 12901 Bruce B. Downs Boulevard, Tampa, FL 33612. FAX: 813-974-5536.

A **POSTDOCTORAL POSITION** is available to study the effects of general anesthetics on neurotransmitter release in the central nervous system. Training in neurochemistry, neuropharmacology, or neuroscience with experience in rat brain dissection, subcellular fractionation, superfusion, HPLC, and spectrofluorimetry is desirable. Send a statement of research interests and experience, curriculum vitae, and three references to: Dr. H. C. Hemmings, Jr., Department of Anesthesiology, Box 50, LC-203, Cornell University Medical College, 525 East 68th Street, New York, NY 10021. E-mail: hchemmi@mail.med.cornell.edu.

POSITIONS OPEN

The Cardiovascular Research Center at the University of Michigan invites applications for **POSTDOCTORAL FELLOWS** to train in basic and clinical cardiovascular science. Candidates must have a Ph.D. or a M.D. degree and be a permanent resident or U.S. citizen. Postdoctoral Fellows will have the opportunity to learn a broad range of experimental strategies including molecular, genetic, cellular, and integrative biological approaches. Areas of research include vascular biology, hypertension, gene therapy, cardiogenesis, heart failure, atherosclerosis, stroke, and diabetes.

Applicants should send a curriculum vitae, a statement of research interests and career goals, and the names of three references to:

Elizabeth Nabel, M.D.
Clinton Webb, Ph.D.
The Cardiovascular Research Center
The University of Michigan Medical School
7310 MSRB III
1150 West Medical Center Drive
Ann Arbor, MI 48108-0644

Application deadline: February 1, 1998.

Beginning date of fellowship: September 1, 1998.

The University of Michigan is an Affirmative Action and Equal Opportunity Educator and Employer. Minority and women candidates are strongly encouraged to apply.

POSTDOCTORAL FELLOWSHIP UNIVERSITY OF CALIFORNIA, SAN DIEGO

A Postdoctoral Fellowship is available immediately in the laboratory of Dr. Paul Martin to study the role of carbohydrates in synaptogenesis. Studies will involve identifying and characterizing novel synaptic carbohydrates, purifying carbohydrate-binding proteins, and cloning novel glycosyltransferases. The successful applicant will have experience in cDNA cloning methods, protein purification, or glycobiology. Please send a two-page curriculum vitae and the names and telephone numbers of three references to: Dr. Paul Martin, Department of Neurosciences, University of California, San Diego, La Jolla, CA 92093-0691.

POSTDOCTORAL FELLOWSHIP/SENIOR POSTDOCTORAL FELLOWSHIP. Molecular psychiatry. This project involves utilization of rapid new methods to search for genetic predisposition to schizophrenia and other mental illnesses by utilizing VAPSE-based candidate gene analysis (*Genomics* 12:1-6, 1992). Please send curriculum vitae, statement of short- and long-term goals, and three to four references to: Steve S. Sommer, M.D., Ph.D., Chair, Departments of Molecular Genetics and Molecular Diagnosis, City of Hope National Medical Center, 1500 East Duarte Road, Duarte, CA 91010. FAX: 626-301-8142; e-mail: ssommer@smtplink.coh.org. *Equal Opportunity Employer.*

A **POSTDOCTORAL POSITION** is available immediately to study novel selenium-containing proteins and their roles in redox signal transduction and cancer (see *PNAS* 93:6146-51, 1996). Recent Ph.D. with experience in molecular biology and biochemistry is desirable. Send curriculum vitae and names of three references to: Dr. Vadim Gladyshev, Department of Biochemistry, University of Nebraska-Lincoln, Lincoln, NE 68588. E-mail: bchm019@unlvm.unl.edu. *The University of Nebraska is an Affirmative Action/Equal Employment Opportunity Employer.*

POSTDOCTORAL POSITION available for January 1, 1998, in the area of neuropeptide and cell-surface peptidase involvement in prostate cancer (*Nature Med.* Jan. 1997) including gene regulation, integrin signaling, cell cycle control, and knockout mice. Background in molecular biology and mouse models preferred. Please send curriculum vitae and references by FAX: 212-746-8941 to: Dr. D. M. Nanus, Department of Urology, Cornell University Medical College, 520 East 70th Street, Suite ST-341, New York, NY 10021. *Equal Opportunity Employer.*

POSTDOCTORAL POSITION available to study mechanism of axonal transport and neural degeneration using multidisciplinary approaches, including cellular, molecular, biochemical, morphological, behavioral approaches and transgenic technology. Send curriculum vitae, a statement of research experience, and names of three references to: Dr. Zuoshang Xu, Department of Pharmacology and Molecular Toxicology, University of Massachusetts Medical School, Worcester Foundation Campus, 222 Maple Avenue, Shrewsbury, MA 01545. FAX: 508-842-3915; e-mail: xu@sci.wfbr.edu.

CONFERENCE

INSTITUT DE L'EAU
PERRIER VITTEL

VITTEL (FRANCE) JUNE 9-12 1998

International Conference : "HYDRATION THROUGHOUT LIFE"

PROGRAM

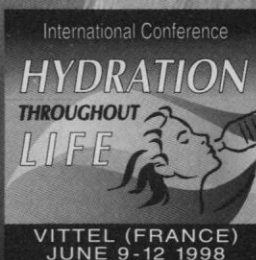
- Thirst and its control
- Homeostasis and control of hydration
- Hydration of the newborn and the child
- Sports and hydration
- Hydration of the elderly

The objective of the Institut de l'Eau Perrier Vittel is to collect all existing knowledge on bottled water and to develop Nestlé's expertise in this field by conducting specific international research programs.

Within the context of the Conference, grants will be awarded to young graduate trainees. Application forms can be obtained from the secretariat of the Institut de l'Eau.

SCIENTIFIC COMMITTEE

- I. Rosenberg (USA)
- B. Beaufrère (F)
- Cl. Burlet (F)
- M. Classen (D)
- R.J. Maughan (UK)
- S. Nicolaïdis (F)
- J. Rey (F)
- B. Vellas (F)



Information/Registration

Institut de l'Eau Perrier Vittel BP 101 F-88804 VITTEL (France)
Tel: +33(0)3 29087041 Fax: +33(0)3 29087049
web access : <http://www.institut-eau.tm.fr>
e-mail: insticau@worldnet.fr

EUROPEAN CAREER OPPORTUNITIES

The Queen's University of Belfast Lectureship in Molecular Cell Biology (Ref: 97/P039C)

School of Biology and Biochemistry
Centre for Peptide and Protein Engineering

Applications are invited from individuals with an excellent record in molecular cell biology and, preferably, proven ability in teaching, for the above mentioned post. Applicants must have an honours degree (or equivalent) and a PhD in Biochemistry, Molecular Biology, or closely related subject. Research experience of applying molecular biology techniques to the study of the following areas of protein biochemistry: signal transduction pathways, protein processing and proteolysis, or mode of action of transcription factors, is essential. Expertise in differential display and yeast two-hybrid systems, would also be highly desirable. The successful candidate will be expected to develop an independent research programme and to foster collaborative links with other members of the Centre for Peptide and Protein Engineering, to which he/she will be associated.

The successful candidate must also be committed to research-led teaching and will be expected to make an immediate (although relatively light) contribution to undergraduate teaching. Commencement date will be 1 October 1998 or an earlier agreed date.

Informal enquiries may be directed to Dr A Wallace, School of Biology and Biochemistry, Tel: (01232) 272089, FAX (01232) 236505, E-mail: a.wallace@qub.ac.uk.

Salary Scale: £16,045 - £21,016 per annum (Lecturer Grade A) placement depending on qualifications, research record and experience.

Closing date: 30 January 1998

Further particulars, quoting reference number 97/P039C are available from the Personnel Office, The Queen's University of Belfast, Northern Ireland, BT7 1NN. Tel: (01232) 273246/273044 273854 (answering machine) or FAX (01232) 324944.

Committed to an Equal Opportunities policy and selection on merit, the University welcomes applications from all sections of the community. Under its affirmative action programme it particularly welcomes applications from women for academic posts.

Center for Genomics Research Functional Genomics Unit at Karolinska Institute seeks to Identify Postdoctoral Fellows in Tumor Angiogenesis

In May of 1997 was announced a very extensive university-industry collaboration in Sweden. At that time, Pharmacia & Upjohn agreed to support a new Center for Genomics Research at the Karolinska Institute in Stockholm. This new Center has full Departmental status and has secured existing laboratory space from September of 1997. In addition to the Center itself, collaborations with leading preclinical as well as clinical research groups throughout the Karolinska Institute are currently being established.

The post doctoral position is available immediately for research in the area of tumor biology with emphasis made on angiogenesis inhibition and tumor dormancy (Holmgren & al. ; Nature Medicine, 1995). Only applicants with a strong background in molecular and cellular biology should apply.

CGR welcomes applicants with a strong background in molecular and cellular biology.

Letters of interest, *Curriculum Vitae* and addresses of at least two persons from whom letters of recommendations can be obtained from, may be directed to: Lars Holmgren, Center for Genomics Research, KAROLINSKA INSTITUTET, SE-171 77 Stockholm, Sweden. Fax: +46 8 32 39 50.e-mail: Lars.Holmgren@mtc.ki.se



Pharmacia
& Upjohn



POSITIONS OPEN

CALTECH POSTDOCTORAL SCHOLARS PROGRAM AT JPL

The California Institute of Technology (Caltech) Postdoctoral Scholars Program at the Jet Propulsion Laboratory (JPL) invites applicants to apply for a Postdoctoral Research position with the U.S. component of the Earth Observing system ASTER investigation. The ASTER investigation involves the use of a high spatial and spectral imaging instrument to be launched in the spring of 1998. This position will entail participation in the calibration of the five eight- to twelve-micrometer thermal infrared channels of the ASTER instrument, validation of the surface radiance products developed from these channels, and analysis of the data from this instrument. Fieldwork will be required, as well as good computational and analysis skills.

Candidates should have a recent Ph.D. in a physical science. Knowledge of remote sensing principles and techniques is helpful, but not necessary. Annual starting salary for a recent Ph.D. is approximately \$39,500, and can vary somewhat according to the applicant's qualification. Postdoctoral scholars positions are awarded initially for a one-year period. Appointments may be renewed in one-year increments for a maximum of two additional years.

Please forward current curriculum vitae, publication list, a letter describing your research interests, and a list of three references to: **Dr. Anne Kahle, MS 183/501, Jet Propulsion Laboratory, 4800 Oak Grove Drive, Pasadena, CA 91109 USA. Telephone: 818-354-7265; FAX: 818-354-0966; e-mail: anne@aster.jpl.nasa.gov.**

The California Institute of Technology and the Jet Propulsion Laboratory are Equal Opportunity/Affirmative Action Employers. Women, minorities, veterans, and disabled persons are encouraged to apply.

POSTDOCTORAL POSITION available for studies in gene therapy for lysosomal storage disorders. Highly motivated, recent Ph.D. or M.D. required for research concerning therapeutic gene transfer into human and animal model hematopoietic cells (see *Blood* 87:1754 and *PNAS* 93:7917, for example). Experience in molecular biology is necessary and training in flow cytometry would be beneficial. Send a curriculum vitae, a description of research interests, and the names, telephone/FAX numbers, and e-mail addresses of three references to: **Jeffrey A. Medin, Ph.D., Section of Hematology/Oncology, University of Illinois School of Medicine, Room 3150 MBRB, 900 South Ashland Avenue, Chicago, IL 60607. Equal Opportunity Employer.**

POSTDOCTORAL POSITION available to join a group studying the structure and regulation of the neurotrophin NADPH oxidase. Applicant should have Ph.D. in biochemistry, pharmacology, molecular biology, or closely related field. Access complete vacancy announcement at departmental website: <http://www.montana.edu/wwwvmbi>. Send application materials to: **Dr. Mark Quinn, Veterinary Molecular Biology, Montana State University, Bozeman, MT 59717. E-mail: mquinn@montana.edu. ADA/Affirmative Action/Equal Opportunity/Veterans preference.**

POSTDOCTORAL POSITION immediately available for the study of *Cryptosporidium parvum* alterations in mammalian host cells. Excellent project in an open field for candidate with strong background in cell biology. Doctorate, U.S. citizenship/employment eligibility required. Send curriculum vitae and three references to: **Jeffrey Griffiths, Tufts University School of Veterinary Medicine, 200 Westboro Road, North Grafton, MA 01536. E-mail: jgriffi2@opal.tufts.edu; FAX: 508-839-7977.**

Glycobiology. **POSTDOCTORAL POSITION** to study mammalian glycobiology with emphasis on the endoplasmic reticulum. See *JBC* 270:4697; 271:13935, 30717. Prior glycobiology training not necessary. Send curriculum vitae, bibliography, and names of three references to: **Mark Lehrman, Department of Pharmacology, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-9041. E-mail: lehrman@utsw.swmed.edu.**

POSTDOCTORAL POSITION. Use transgenic mouse models to study the role of Eph receptor tyrosine kinases in hindbrain development and in angiogenesis. Send curriculum vitae and three references to: **Dr. Jin Chen, Department of Medicine, Vanderbilt University, Nashville, TN 37232-2681. E-mail: jin.chen@mcmail.vanderbilt.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS MOLECULAR BIOLOGY OF MEMBRANE PROTEINS Oregon Health Sciences University

Postdoctoral position(s) are available to develop and apply modern techniques of molecular biology and protein chemistry to study structural aspects (topology, folding, organization of ligand binding domains) and dynamics of cation-transporting P-type ATPases. We are currently using both purified native proteins and heterologously expressed proteins in insect cell lines infected with baculovirus constructs. Strong background in molecular biology and/or biochemistry required, preferably with experience in recombinant DNA techniques. Send curriculum vitae and names of three references to:

**Professor Jack H. Kaplan, Ph.D., F.R.S.
Department of Biochemistry and Molecular Biology
E-mail: kaplanj@ohsu.edu**

MOLECULAR MECHANISMS OF SIGNALING IN BACTERIA

Postdoctoral position available to study signal transduction and osmoregulation in *E. coli* K-12 and O:157(H7). We study a two-component system that regulates expression of the outer membrane proteins OmpF and OmpC. Our aim is to elucidate the mechanism of signal sensing by the histidine kinase EnvZ, the protein: protein interactions of the kinase with the response regulator, OmpR, and how the DNA binding domain of OmpR interacts with the porin promoters to regulate their expression. Experience with molecular biology and/or biochemistry is desired. Send curriculum vitae and names of three references to:

**Dr. Linda J. Kenney
Department of Molecular and
Microbiology and Immunology
Oregon Health Sciences University
3181 S.W. Sam Jackson Park Road
Portland, OR 97201-3098
E-mail: kenneyl@ohsu.edu**

POSTDOCTORAL POSITION LIVER CARCINOGENESIS

Postdoctoral position is available immediately to study cellular origins of hepatocarcinogenesis in rat animal models with a focus on the following: (1) delineating *in vivo* cell lineage pathways using retroviral vectors and (2) isolation of liver stem cells. Exceptional skills in surgical techniques are required (partial hepatectomy, portal vein perfusion, asanguineous perfusion). Experience with morphologic techniques (light microscopy immunocytochemistry) is essential. Knowledge of cell biology, molecular biology, and cell isolation techniques is desirable. Experience in immunofluorescence, confocal microscopy, and computer-based image analysis is helpful or a willingness to learn. Send curriculum vitae and references to:

**Phyllis M. Novikoff, Ph.D.
Department of Pathology, U423
Albert Einstein College of Medicine
Jack and Pearl Resnick Campus
1300 Morris Park Avenue
Bronx, NY 10461
E-mail: novikoff@accomm.yu.edu
FAX: 718-430-2488**

Equal Opportunity Employer.

POSTDOCTORAL POSITION

Senior Postdoctoral Fellowship opening for Ph.D. in molecular biology. Successful candidate will have completed some training in gene therapy. Requirements include experience in viral and non-viral vector for *in vivo* gene transfer and gene transfer techniques in mammalian cells, good publications record, good writing skills. Salary and benefits competitive; possible long-term position. Send résumé, cover letter, and the names of three references to: **Ms. C. Farrell, P.O. Box 7210, Loma Linda, CA 92354.**

POSTDOCTORAL POSITION available immediately to study the molecular mechanisms of angiogenesis by analyzing the intracellular targets of anti-angiogenic drugs (*PNAS* 94:6099-6103). Experience in molecular biology, biochemistry, tissue culture, and signal transduction pathways preferred. Please send curriculum vitae, a brief statement of past research, and names/addresses of three references to: **Dr. Craig M. Crews, P.O. Box 208103, Department of Molecular, Cellular, and Developmental Biology, Yale University, New Haven, CT 06520-8103.**

POSITIONS OPEN

POSTDOCTORAL ASSOCIATE UNIVERSITY OF MINNESOTA CANCER CENTER

Two outstanding opportunities to participate in research in a state-of-the-art facility:

(1) A program to conduct studies on the inactivation of DNA repair proteins by carcinogen metabolites. The research involves organic synthesis as well as biochemical assays to determine inactivation mechanisms. Applicants must have a Ph.D. in chemistry or biochemistry or the foreign equivalent. Expertise in organic synthesis and/or biochemical methods is preferred.

(2) A program characterizing extrahepatic cytochrome P450s involved in esophageal carcinogenesis. Applicants must have a Ph.D. in biochemistry, medicinal chemistry, or a related area or the foreign equivalent. A strong background in drug-carcinogen metabolism and experience with both molecular biology and biochemical techniques is preferred.

Both positions are annually renewable and limited to a period of three years. Applicants should indicate qualifications in a cover letter to **Lisa Peterson, Ph.D.** (position 1) or **Sharon Murphy, Ph.D.** (position 2) and also include a curriculum vitae and the names and addresses of three references to: **Ms. Marilyn Madsen, University of Minnesota Cancer Center, Box 806 Mayo, 424 Delaware Street S.E., Minneapolis, MN 55455.** Applications must be postmarked by January 16, 1998.

The University of Minnesota is an Equal Opportunity Educator and Employer.

POSTDOCTORAL POSITIONS GEORGETOWN UNIVERSITY MEDICAL CENTER

Two Postdoctoral positions are available immediately to study the biochemical and molecular aspects of *Ataxia-telangiectasia* and prostate cancer. The projects include biochemical analysis, isolation of novel genes, and clinical translation studies for gene therapy. Recent Ph.D. training in molecular or cellular biochemistry. Prefer experience in these areas and less than five years of postgraduate. Send curriculum vitae and names of three references to: **Anatoly Dritschilo, M.D., Professor and Chairman, Department of Radiation Medicine, Division of Radiation Research, Georgetown University Medical Center, 3790 Reservoir Road N.W., Washington, DC 20007-2197. FAX: 202-687-0400.**

Georgetown University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

To study molecular biology, structure, and function of viral and cytosolic proteins/peptides interacting with membranes/lipids domains. A Ph.D. in chemistry, biochemistry, microbiology, or related field is desirable. Send curriculum vitae and three letters of reference to: **Dr. F. Schroeder, Department of Physiology and Pharmacology, College of Veterinary Medicine, Texas A&M University, College Station, TX 77843-4466.** Texas A&M University is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity. Texas A&M University particularly invites applications from minorities, women, veterans, and persons with disability.

POSTDOCTORAL POSITION in the Division of Nutritional Sciences, Cornell University. Transcriptional, post-translational regulation, structure-function studies of lipolytic enzymes, molecular interactions of proteoglycans, lipoprotein receptors. Cell culture, molecular biology, immunochemical techniques, surface plasmon resonance, recombinant DNA, and mouse transgenic techniques employed. Ph.D. required with training in biochemistry/molecular biology. Send résumé and three references to: **Dr. Andre' Bensadoun, Division of Biological Sciences and Nutritional Biochemistry, 321 Savage Hall, Cornell University, Ithaca, NY 14853.** Affirmative Action/Equal Opportunity Employer.

A **POSTDOCTORAL POSITION** is currently available to characterize gamma-glutamyl hydrolase (GH) gene and study the regulation of its expression in normal and tumor cells. Project focuses on the role of GH in cellular folate homeostasis and antifolate toxicity. Interested candidates with experience in cellular and molecular biology are encouraged to apply with three letters of reference to: **Dr. John Galivan and Dr. Rong Yao, Health Research Inc., Wadsworth Center, New York State Department of Health, Empire State Plaza, Albany, NY 12201.** Health Research Inc. is an Affirmative Action/Equal Opportunity Employer.

At the

Max-Planck-Institute for Aeronomy

Katlenburg-Lindau, there is an opening of a C4-position (full Professor), Member of the Scientific Board of the Institute and Director at the Institute (succeeding **Professor Dr. Sir Ian Axford**), starting as soon as possible. The candidate will be responsible for

Planetary System Science

The Institute conducts experimental and theoretical research in the fields of planetary surfaces, planetary atmospheres, ionospheres, magnetospheres, and planetary rings, planetary satellites, asteroids, and comets, as well as dust in the interplanetary medium. The experimental work is carried out both as *in situ* and remote observations from space vehicles and remotely from the ground, and involves detectors in the full range of the electromagnetic spectrum and particle detectors in a wide energy, charge and mass range. The applicant must be a scientist with an international reputation in the field, with an excellent publication record and preferably some administrative experience.

Please send your application (with CV, list of publications, and reprints of five major publications) no later than January 31, 1998, to the **chairman of the Chemisch-Physikalisch-Technische Sektion of the Max-Planck-Gesellschaft, Prof. Dr. A. Simon, Heisenbergstr. 1, D-70569 Stuttgart, Germany.**

For further information, contact the

Max-Planck-Institute for Aeronomy
Max-Planck-Str. 2, D-37191 Katlenburg-Lindau
Telefon ++49-5556-979 414 (Prof. Hagfors)
Telefax ++49-5556-979 410
INTERNET hagfors@linmpi.mpg.de.

Department of Biological Sciences

Postdoctoral Research Assistant in Mammalian Cell Cycle Control

A Postdoctoral Research Assistant post is available immediately to join a team working on mechanisms of mammalian cell cycle control.

Applicants should have a PhD and substantial experience in techniques involving either protein purification, chromatin condensation, transcriptional regulation and/or cell cycle check points.

The post is available for one year in the first instance, with the possibility of extension of three years.

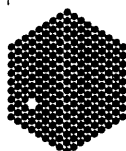
Salary is on the RA1A scale: £15,159 - £22,785 pa.

Informal enquiries to Professor M.A. Hulten (tel: 01203 528971; fax: 01203 523568) e-mail: ceht@dna.bio.warwick.ac.uk

Application forms can be obtained from the Personnel Office, University of Warwick, Coventry CV4 7AL (tel: 01203 523627; e-mail: recruit@admin.warwick.ac.uk) or from the Web page <http://www.warwick.ac.uk/services/publicity/jobs/> Please quote reference 18/2R/97.

Closing date for applications is 19 January 1998.

UNIVERSITY OF
WARWICK



EMBL Monterotondo
Research Programme

The European Molecular Biology Laboratory is an international research organisation consisting of three Outstations in Hamburg, Grenoble and Hinxton and a Headquarters Laboratory situated in Heidelberg, Germany. An EMBL Research Programme in Mouse Genetics was established recently at the Monterotondo campus, near Rome, at a site where the European Mouse Mutant Archive is also being established independently. The EMBL faculty already appointed include K. Rajewsky (Programme Coordinator; B-cell development, targeted recombination) W. Witke (Group Leader; cell motility, actin binding proteins) and Ulrich Kalinke (Staff Scientist; anti-viral defense mechanisms). The Programme will begin to operate at Monterotondo in January 1998. Applications are invited for the position of:

GROUP LEADER IN MOUSE GENETICS (ref. 97/92)

We are interested in excellent candidates who work on mouse biology, in areas that use modern tools of genetic analysis. Preference will be given to projects in cell biology and immunology, but other areas will also be considered. The selected candidate will be given a standard EMBL Group Leader appointment including some research and personnel costs, initially for 5 years. He/she will also hold an associate appointment in the EMBL Headquarters Laboratory in Heidelberg, which includes groups working on vertebrate gene expression, cell biology, differentiation and development.

Informal enquiries can be made to:

Dr. Klaus Rajewsky - tel.: +49-221-4702467, fax: +49-221-4705185

Closing date for applications: February 28, 1998. The appointment will be available from Summer 1998.

EMBL is an inclusive, equal opportunity organisation.

EMBL Web site: <http://www.embl-heidelberg.de/>

Applications, comprising a curriculum vitae, a short description of research accomplishments and future plans, and three letters of reference should be sent to the Head of Human Resources at the address given below.

EMBL, Postfach 10.2209, D-69012 Heidelberg, Germany. Fax: +49 6221 387555; Tel.: +49 6221 387208; email: jobs@EMBL-Heidelberg.de

POSITIONS OPEN

POSTDOCTORAL POSITION

Position available to study integrin signal transduction in tumor cell growth regulation and angiogenesis. Opportunity to characterize protein/gene of novel anchorage-regulated MAP kinase. Studies require molecular biology, protein biochemistry, and/or cell biology experience. Send curriculum vitae and three references to: **Dr. Judith A. Varner, University of California, San Diego, Cellular and Molecular Medicine East 3050, 9500 Gilman Drive, La Jolla, CA 92093-0684.**

POSTDOCTORAL FELLOWSHIP PATCH-CLAMP STUDIES OF HUMAN SODIUM CHANNEL DISORDERS

Transgenic mice mimicking hereditary human diseases produced by mutations in Na channel genes will be analyzed to determine pathomechanisms, precipitating factors, and possible therapeutic interventions. Prerequisite: previous patch-clamp channel experience. NIH payscale. One year, renewable, starting immediately. Provide a curriculum vitae, a brief summary of research interests, and three references to:

Robert L. Barchi, M.D., Ph.D.
Roland G. Kallen, M.D., Ph.D.

University of Pennsylvania School of Medicine
218 Stemmler Hall
Philadelphia, PA 19104-6074

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FLORIDA GULF COAST UNIVERSITY

Established in cooperation with the Center for Environmental Studies at Florida Atlantic University through funding from the South Florida Water Management District (SFWMD). Required: Ph.D. in marine science, limnology, or related field. To apply, visit our website: <http://www.fgc.edu> or call the jobline at **Telephone: 941-590-1111** and access Faculty category. Deadline date: February 24, 1998. Under Florida law, applications submitted are available for public review upon request.

Florida Gulf Coast University is an Equal Opportunity/Equal Access/Affirmative Action Institution which has a commitment to cultural, racial, and ethnic communities and encourages women and minorities to apply. It is expected that successful candidates share in this commitment.

STEM CELL AND HEMATOLOGY POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS Case Western Reserve University

NIH-funded Postdoctoral Research positions for M.D.'s, M.D.-Ph.D.'s, Ph.D.'s. Research focus in hematopoietic and stromal stem cells, gene therapy, regulation of differentiation, marrow transplant immunology, iron metabolism, and leukemogenesis.

Send curriculum vitae, names of three references, and research interests to: **Dr. Stanton Gerson, School of Medicine (BRB), Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-4937.** Eligibility for NIH training preferred (U.S. citizen or permanent resident). Minorities and women are encouraged to apply.

POSTDOCTORAL POSITION available for research training in cellular and molecular physiology. Research emphasis is to study protein kinase regulation of mammalian Na/H exchangers and interaction with associated proteins (*PNAS* 94:3010, 1997). Experience in molecular, cellular biology or physiology is required. Send curriculum vitae and two letters of reference to: **Dr. C. Chris Yun, GI Division, Johns Hopkins School of Medicine, 918 Ross, 720 Rutland Avenue, Baltimore, MD 21205.** FAX: 410-955-9677; e-mail: cyun@welchlink.welch.jhu.edu.

POSTDOCTORAL POSITIONS available immediately to investigate molecular and cellular aspects of astrocyte/neuron interactions. One position requires demonstrated experience in molecular biology, the other a cell biological background. Send curriculum vitae, description of research interests, and names, addresses, and e-mail addresses to: **Dr. Herbert M. Geller, Department of Pharmacology, 675 Hoes Lane, Piscataway, NJ 08854 USA.** The University of Medicine and Dentistry of New Jersey is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN



POSTDOCTORAL FELLOWSHIP available immediately to study signal transduction *in vivo* in rat and mouse models of insulin resistance, diabetes, and complications. Experience in physiology/molecular biology preferred. Candidate will join productive multidisciplinary team of physician-scientists, molecular biologists, and animal physiologists. Salary and benefits competitive. Send letter of interest and curriculum vitae to:

Ronald Law, Ph.D.
University of California, Los Angeles
Division of Endocrinology,
Diabetes, and Hypertension
900 Veteran Avenue, Suite 24-130
Box 957073
Los Angeles, CA 90095-7073

The University of Michigan, Department of Pathology, has a position for a **POSTDOCTORAL FELLOW** to investigate molecular mechanisms of apoptosis. Induction and inhibition of cytokine-induced apoptosis are the focus of the group. Applicants should have experience in molecular biology and cell biology techniques and preferably a background in signal transduction. This position provides the opportunity to contribute to an exciting and fast moving field of molecular biology. The Department of Pathology has been very active in the field of apoptosis providing the opportunity for intramural collaborations. Interested individuals should forward a curriculum vitae and three letters of recommendation to: **Claudius Vincenz, Ph.D., Department of Pathology, The University of Michigan, 1301 Catherine, Ann Arbor, MI 48109-0602.** E-mail: claudius.vincenz@umich.edu. *The University of Michigan is an Affirmative Action/Equal Opportunity Employer.*

FELLOWSHIP POSITION

A **POSTDOCTORAL POSITION** is available in the Division of Cardiovascular Medicine Atherosclerosis Research Program, University of Kentucky under the supervision of **Dr. Alan Daugherty**. The project will study the pathophysiological role of specific classes of scavenger receptors. The preferred candidate would have experience in quantification and characterization of atherosclerosis in mouse models. A background in lipoprotein physiology and molecular techniques would be an advantage.

Applicants should submit a curriculum vitae, relevant publications, and references to: **Alan Daugherty, Ph.D., Division of Cardiovascular Medicine, University of Kentucky, L543 KY Clinic, Lexington, KY 40502.** Telephone: 606-323-3996; e-mail: adaugh@pop.uky.edu.

A **POSTDOCTORAL POSITION** is available to investigate the role of multispecific organic anion transporter and multidrug resistance-related protein in regulating the brain uptake and clearance of valproic acid and other acidic drug molecules. Experience with endothelial and/or neural cell cultures and basic molecular biology techniques is highly desirable. Send curriculum vitae and a list of references to: **Dr. D. D. Shen, Department of Pharmaceutics, Box 357610, University of Washington, Seattle, WA 98195-7610.** E-mail: ds@u.washington.edu.

NEUROGENETICS. A POSTDOCTORAL POSITION is available to study the genetics and biology of cerebral lateralization (asymmetry), and associated disorders of language (dyslexia). A background in molecular and/or statistical genetics is preferred, although all qualified applicants will be considered. Please send letter of interest and curriculum vitae to: **Dr. Geschwind, Director of Neurogenetics Program, RNRC 1-145, UCLA School of Medicine, Los Angeles, CA 90095.**

POSTDOCTORAL POSITION available for three years to study molecular biology of cellular uptake of folates and antifolate drugs such as methotrexate. Experience with molecular techniques and cell biology is essential. Send curriculum vitae and e-mail addresses of references to: **Jeffrey A. Moscow, M.D., Chief, Pediatric Hematology-Oncology, University of Kentucky, Kentucky Clinic Room J457, 740 South Limestone, Lexington, KY 40536-0284.** FAX: 606-257-6048.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP in clinical chemistry available immediately. Experience in antibody production (polyclonal/monoclonal), protein chemistry, assay development (RIA/ELISA), and statistics is essential. Salary and benefits competitive. Please apply with curriculum vitae and names of references to: **Ms. C. Farrell, Mineral Metabolism Lab, P.O. Box 7210, Loma Linda, CA 92354.**

POSTDOCTORAL POSITIONS PROTEIN/DNA INTERACTIONS AND CANCER MUTATION DETECTION

Positions available as part of a multi-institutional NCI-funded Program Project Grant to study (i) thermophilic DNA-recognition proteins using biochemical, genetic, and structural approaches, and (ii) their use in detection of mutations associated with tumor development. Applicants should have a Ph.D., preferably with experience in protein-DNA interactions, structural biology, nucleic acid chemistry, DNA and PCR technology, human or cancer genetics. Competitive salary commensurate with experience. Send curriculum vitae and names of three references to:

Professor Francis Barany
Programs of Biochemistry, Structural Biology,
and Molecular Biology
Box 62, Cornell University Medical Center
1300 York Avenue
New York, NY 10021
FAX: 212-746-8587

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POSTDOCTORAL POSITIONS UNIVERSITY OF PITTSBURGH MEDICAL CENTER Cardiovascular Research Laboratories

Two positions available January 1998 in the Division of Cardiology, laboratory of **Dr. Arthur M. Feldman**: (1) to study abnormal Ca^{2+} handling, cellular electrophysiology, and arrhythmias in transgenic and knockout mouse models of CHF, and (2) to study the cellular and molecular determinants of CHF. Prior experience with myocyte isolation, cell physiology, fluorescent intracellular calcium measurement, patch clamp, and/or molecular techniques including transgenic technology, is required. Send curriculum vitae and names of three references to: **Attn: Mary Beth Bawden, Division of Cardiology, University of Pittsburgh Medical Center, Fifth Floor Scalf Hall, 200 Lothrop Street, Pittsburgh, PA 15213.**

POSTDOCTORAL/RESEARCH ASSOCIATE positions in molecular virology available immediately to study the mechanism of coronavirus RNA replication/transcription on funded projects. One project focuses on viral RNA synthesis using a defective-interfering RNA-reporter system and the other on characterization of ribonucleoprotein complex. Experience in biochemistry, protein purification, virology, and molecular biology is highly preferred. Send curriculum vitae, and names and telephone numbers of three references to: **Dr. Xuming Zhang, Department of Microbiology, Slot 511, University of Arkansas for Medical Sciences, Little Rock, AR 72205.** FAX: 501-686-5359; e-mail: zhangxuming@exchange.uams.edu.

POSTDOCTORAL POSITION

Available immediately to study the molecular mechanism of dimorphism in *Candida albicans*. This position requires experience in protein purification, and working ability in molecular biology and microbiology. Published experience in yeast physiology is desirable. This person is expected to develop an active research program with minimum supervision and this ability needs to be documented. Salary according to experience. Please send curriculum vitae and three letters of reference to: **Dr. M. Gunasekaran, Department of Biology, Fisk University, Nashville, TN 37208.**

RESEARCH POSITION available immediately for experienced person in cell culture. Background in electromagnetics, biochemistry, and/or physics desirable. Salary commensurate with education and experience. FAX curriculum vitae, and references to FAX: 718-260-3125; e-mail: jrodrigu@poly.edu. Polytechnic University, Mail Box 299, Brooklyn, NY 11201. *An Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP SCANNING PROBE MICROSCOPY

A Postdoctoral Fellowship is available with St. Olaf College's Surfaces Group, an NSF-funded team of Chemists, Biologists, and Physicists using SPM and other techniques to examine amphiphiles on surfaces. Duties will include supervising undergraduate researchers, maintaining our three AFMs, and conducting research related to the project. There will be opportunity for some undergraduate teaching if desired. Expertise with soft samples and/or fluid environments is expected. Interest in developing new approaches is encouraged. For more information, check our website: www.stolaf.edu/other/surfaces. Fullest consideration will be given to applications received by 1 February 1998. Please send a résumé, transcripts, and three letters of recommendation to:

Mary Walczak, Ph.D., Chemistry Department
Anne Walter, Ph.D., Biology Department
St. Olaf College
Northfield, MN 55057

St. Olaf College is an Equal Opportunity Educator/Employer and actively seeks diversity in students, faculty, and staff.

POSTDOCTORAL FELLOW/ RESEARCH ASSOCIATE

Ph.D. and/or M.D. Postdoctoral/Research Associate position is available in pediatric heart surgery to study hemodynamic changes and treatment modalities in congenital heart disease. The position requires designing experiments and developing animal models to mimic heart malformations, observation and measurement of hemodynamic changes, and implementation of therapeutic strategies. Some of these models are highly technical. Prior training and a strong background in animal/human heart surgery is essential. Experience in computer data acquisition and analysis technology is a plus. Send curriculum vitae, copy of selected reprints, and pertinent information to: Eric Austin, M.D., Division of Thoracic and Cardiovascular Surgery, University of Louisville, Louisville, KY 40292. The University is an Equal Opportunity/Affirmative Action Employer. Application cutoff is January 16, 1998.

BIOCHEMIST. POSTDOCTORAL RESEARCH ASSOCIATE, GS-11, U.S. Department of Agriculture (USDA), Agricultural Research Service, National Center for Agricultural Utilization Research (NCAUR), Peoria, Illinois. The Oil Chemist Research Unit is seeking a Biochemist to study enzyme mechanism, stabilization, and bioreactor for large-scale production of value-added industrial products from soybean oil. Candidates must possess background in biochemistry, enzymology, and bioengineering. Ph.D. is required and should have been awarded within the last four years. Position is funded for two years. Salary commensurate with experience (\$37,507 to \$48,761 per year). Benefits available. Position will be open until filled. Send résumé or curriculum vitae to: Dr. Ching Hou, Oil Chemical Research Unit, USDA/ARS/NCAUR, 1815 North University Street, Peoria, IL 61604. USDA/ARS/NCAUR is an Equal Opportunity Employer.

CANCER EPIDEMIOLOGY

Columbia University School of Public Health announces current openings for **POSTDOCTORAL RESEARCH FELLOWS** in cancer epidemiology, biostatistics, and environmental health sciences. Training involves substantive issues and research methods. Postdoctoral stipends range from \$19,608 to \$32,300 per year, depending upon years of experience. Send cover letter and curriculum vitae to: Cancer Training Coordinator, Division of Epidemiology, PH-18, 600 West 168th Street, New York, NY 10032. Candidates must be U.S. citizens or permanent residents to be eligible. Minorities and women are encouraged to apply. We take Affirmative Action toward Equal Employment Opportunity.

POSTDOCTORAL POSITION available immediately to examine determinants of metal ion-binding affinity in EF-hand proteins. Project involves characterization of select parvalbumins and site-specific variants using a battery of physical techniques: flow dialysis, titration and scanning calorimetry, analytical ultracentrifugation, and high-resolution NMR. Please send curriculum vitae and three references to: Dr. Michael T. Henzl, Biochemistry Department, 117 Schweitzer Hall, University of Missouri-Columbia, Columbia, MO 65211. Telephone: 573-882-7485; FAX: 573-884-4812; e-mail: bchenzl@mucmail.missouri.edu.

POSITIONS OPEN

POSTDOCTORAL POSITIONS IN GENETIC EPIDEMIOLOGY Southwest Foundation for Biomedical Research

Postdoctoral positions are available immediately to work with an active group of scientists in our Population Genetics Laboratory in research on the genetics of complex diseases. Projects involve statistical detection and mapping of genes that influence complex traits related to heart disease, diabetes, obesity, and other common human diseases. Opportunity to become involved with research in a variety of human populations or in animal models for human diseases. A Ph.D. or M.D. degree is required. Preference given to individuals with a background in genetics, statistics, or epidemiology. For further information, check the Population Genetics Laboratory website: <http://www.sfbr.org>. Send curriculum vitae, a letter describing your research interests, and the names, addresses, and telephone numbers of three references to: Director of Human Resources (759), Southwest Foundation for Biomedical Research, P.O. Box 760549, San Antonio, TX 78245-0549. Equal Opportunity Employer.

GLOBAL CAREER OPPORTUNITIES

TEACH IN JAPAN

Individuals with university degree(s) and professional experience in science, engineering, and technology needed to teach in their fields and business English in Tokyo and Osaka. Please forward résumé to:

International Education Services
Rose Hikawa Building
22-14, Higashi 2-Chome
Shibuya-Ku, Tokyo 150 Japan
FAX: 81-3-3498-7113
E-mail: iesinfo@iac.co.jp

INTERNSHIPS

NRC SUMMER INTERNSHIP PROGRAM

The National Research Council (NRC) is now accepting applications for its summer internship program to provide students with the unique experience of working on science and technology policy activities. Graduate or postdoctoral candidates in any physical, biological, or social science or any field of engineering, medicine, or veterinary medicine, as well as law students who are specializing in science or engineering-related law, are invited to submit the application available at website: <http://www2.nas.edu/nrc-ip>. Deadline of March 1, 1998. For more information, contact e-mail: nrc-ip@nas.edu or write to: Dr. Deborah Stine, National Research Council, 2101 Constitution Avenue N.W., Washington, DC 20418.

COURSES & TRAINING

NASA PLANETARY BIOLOGY INTERNSHIPS

The Mariner Biological Laboratory, Woods Hole, Massachusetts, invites applications from graduate students and seniors accepted to graduate programs for internships to explore scientific questions of global scale about the planet Earth. Interns will receive awards of \$2,200 plus travel to participate in research at NASA centers and collaborating institutions for approximately eight weeks. Typical intern programs include global ecology, remote sensing, microbial ecology, biomineralization, origin and early evolution of life. Application deadline: March 2, 1998. For information/applications, contact: Michael Dolan, Planetary Biology Internship, Department of Biology, Box 3-5810, University of Massachusetts, Amherst, MA 01003-5810. E-mail: pbi@bio.umass.edu. Telephone: 413-545-3223. An Equal Opportunity Employer/Affirmative Action Institution.

MEDICAL UNIVERSITY OF SOUTH CAROLINA offers programs leading to Ph.D. and M.D.-Ph.D. degrees in the basic biomedical sciences (biochemistry, microbiology/immunology, pathology, pharmacology, physiology) and molecular and cellular biology and pathobiology, biometry/epidemiology, and pharmaceutical sciences. Competitive stipends of \$15,000 available. Contact: College of Graduate Studies, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425-2501. Website: <http://www2.musc.edu/>.

COURSES & TRAINING

BIOLOGY OF DISEASE VECTORS COURSE COLORADO STATE UNIVERSITY FORT COLLINS, COLORADO, USA 13 June-27 June, 1998

The course provides a broad perspective of vector biology and emphasizes modern molecular and quantitative techniques. Subjects covered include: gene regulation, molecular systematics, genetic manipulation, blood-feeding, behavior, and population biology. The course is designed primarily for advanced students (M.S., Ph.D.), Postdoctoral Fellows, and faculty. Enrollment is limited to 30 students. Financial aid may be provided based on need. Previous applicants are encouraged to reapply. For application forms and further information contact: Dr. Stephen Higgs, Arthropod-borne and Infectious Diseases Laboratory (AIDL), Foothills Campus, Colorado State University, Fort Collins, CO 80523-1682 USA. Telephone: 970-491-8604; FAX: 970-491-8323; e-mail: shiggs@cvmbs.colostate.edu.

Colorado State University is an Equal Opportunity/Affirmative Action Institution and complies with all federal and Colorado state laws, regulations, and executive orders regarding Affirmative Action requirements in all programs.

MEETING

MELATONIN AFTER FOUR DECADES: AN ASSESSMENT OF ITS POTENTIAL A Hanseatic Endocrine Conference 27-30 August 1998 University of Hamburg, Germany

This international conference will consist of invited state-of-the-art lectures and free communications (selected oral presentations and posters). Deadline for abstracts and registration fees is 17 April 1998. Proceedings will be published. For further information, contact: Dr. James Olcese, IHF, University of Hamburg, Grandweg 64, 22529 Hamburg, Germany. Telephone: 49-40-561-9080; FAX: 49-40-561-90864; e-mail: olcese@uke.uni-hamburg.de.

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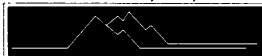
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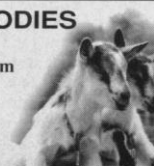
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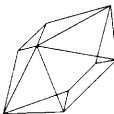
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