

# SCIENCE

## PERSONNEL PLACEMENT

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- **Deadlines:** Ads are due by Thursday, 10 a.m., 2 weeks prior to the issue date. *Science* is published each Friday, except the last Friday of the year. Call for holiday deadlines. Advertisements must be submitted in writing.
- **How to Submit a Classified Ad:** Prepare double-spaced typewritten copy. Do not include any abbreviations. *Science* will edit and typeset ads according to *Science* guidelines. Include billing information, and desired publication date. Available categories: Positions Open, Meetings, Announcements, Courses and Training.
- **Mail, FAX, or E-Mail materials to:**  
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Telephone: 202-326-6555  
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- **Rates:** Ads are \$43 per line; \$430 minimum. One line equals 52 characters and spaces; centered headings equal 32 characters and spaces. A 3% cash discount is granted to all prepaid ads.
- **Ads from Outside the U.S.:** A discount of \$30 will be offered to advertisers making payment in U.S. dollars by checks drawn on U.S. banks. Contact Annemarie Vis at +44 223 302 067 (telephone) or +44 223 302 068 (FAX).
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### DISPLAY PERSONNEL ADVERTISEMENTS

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**CONDITIONS:** Personnel advertising is accepted only with the understanding that the advertisers do not discriminate among applicants on the basis of race, sex, religion, age, color, handicap or sexual preference. The AAAS encourages employers to actively recruit and employ underrepresented minority groups. *Science* reserves the right, at its discretion, to decline to publish advertisements submitted to it.

## POSITIONS OPEN

### ASSISTANT/ASSOCIATE PROFESSOR BACTERIAL PATHOGENESIS

The Department of Molecular Microbiology and Immunology at the Johns Hopkins University School of Public Health seeks to recruit an Assistant/Associate Professor with research experience in bacterial pathogenesis. The individual would be expected to develop an independent research program within an interactive environment of investigators interested in pathogenesis of microbial diseases. There will be opportunities for teaching and training of graduate students. Applicants should send curriculum vitae, description of research interests and names of three references to: **Dr. Diane Griffin, Department of Molecular Microbiology and Immunology, Room 4013, School of Public Health, Baltimore, MD 21205.** *The Johns Hopkins University actively encourages interest from women and minorities and is an Equal Opportunity/Affirmative Action Employer.*

### ADJUNCT ASSISTANT PROFESSOR OF RADIOLOGY (RESEARCH PHYSICIST)

The Laurie Imaging Center is looking for a research engineer or physicist with skills in Magnetic Resonance Imaging to work on the development of novel methods for image acquisition, manipulation, display and analysis.

The Center provides clinical MRI services for the Robert Wood Johnson Medical School and its affiliated hospitals and is responsible for research and education as part of the Department of Radiology of the Medical School. The Center is actively involved in research on methods for functional imaging, MR Angiography, interactive 3D display and manipulation and is looking for creative individuals interested in joining our research team of physicians and engineers. The Center houses two MR systems, one dedicated to research, and has in-house facilities for clinical and basic research. The Center has close affiliations with Rutgers University as well as the many industrial research centers in central New Jersey, and has active collaborative projects with research scientists, engineers and physicians in the Medical School and surrounding institutions. Ph.D. in Chemistry or Physics and experience in MRI related work required.

Interested applicants should send their résumé to: **Reuben Mezrich, M.D., Ph.D., Director of MRI, UMDNJ-RWJMS, Laurie Imaging Center, 141 French Street, New Brunswick, NJ 08901.** *University of Medicine and Dentistry of New Jersey—RWJMS, is an Affirmative Action/Equal Opportunity Employer, m/f/d/v, and a member of the University Health System of New Jersey.*

**PLANT MOLECULAR BIOLOGIST.** The Department of Plant Pathology, Cornell University, invites applications for a 12-month tenure-track position at the ASSISTANT PROFESSOR level to investigate plant responses to pathogens. For information concerning the position description, requirements, and responsibilities, applicants should contact: **Dr. P. Palukaitis, 334 Plant Science Building, Cornell University, Ithaca, NY 14853.** FAX: 607-255-4471. E-mail: [bjm2@Cornell.edu](mailto:bjm2@Cornell.edu). Review of applications will begin 15 August 1994. *Cornell University is an Affirmative Action/Equal Opportunity Employer.*

### ASSISTANT PROFESSORS DEPARTMENT OF MICROBIOLOGY AND MOLECULAR GENETICS HARVARD MEDICAL SCHOOL

The Department of Microbiology and Molecular Genetics seeks applications for two positions of Assistant Professor. One position will be filled by a candidate who uses viruses to study replication, pathogenesis, immune response to viral infections or other areas of virology. The other position will be filled by a candidate who uses bacteria, parasites, yeasts or fungi to study fundamental problems in cell and/or molecular biology. Applicants should possess a Ph.D. or M.D. degree and have at least two years of postdoctoral training. The successful candidates will conduct independent research and participate in teaching graduate and medical students. Applicants should send curriculum vitae, three reprints, a short summary of research interests, and the names of three references to: **Dr. Bernard Fields, Chair, Department of Microbiology and Molecular Genetics, Harvard Medical School, 200 Longwood Avenue, Boston, MA 02115.** *Harvard Medical School is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.*

## POSITIONS OPEN

### ASSISTANT/ASSOCIATE PROFESSOR, OILSEED GENETICS

Plant, Soil and Environmental Sciences  
Montana State University

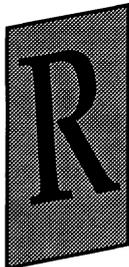
Twelve-month, tenure-track, 85% research/15% teaching position available 1 July 1995. This is a new initiative designed to complement and extend the efforts of our crop improvement programs. Required: Ph.D. in plant genetics, plant breeding, molecular biology, or related field; postdoctoral research experience in oilseed genetics or molecular genetics; strong record of publications and grants. Before applying, applicants **MUST** request a complete vacancy announcement from: **Kathy Jennings, Plant, Soil and Environmental Sciences, Montana State University, Bozeman, MT 59717-0312; Telephone: 406-994-4601, FAX: 406-994-3933, E-mail: ASSKJ@MSU.OSCS.MONTANA.EDU.** Application review begins August 8, 1994. *ADA/Equal Opportunity/Affirmative Action/Veteran's Preference.*

### DEPARTMENT OF MICROBIOLOGY DUKE UNIVERSITY MEDICAL CENTER

Faculty positions in molecular microbiology with emphasis on the molecular and genetic basis of pathogenic processes. The Department of Microbiology at Duke University Medical Center has a scientifically diverse faculty who study virus structure and function, virus-host interactions, DNA replication and recombination, RNA transcription and processing, protein-nucleic acid interactions, X-ray crystallography and NMR, *Drosophila* genetics, molecular mycology and mouse embryogenesis. Positions are now available at the ASSISTANT PROFESSOR or ASSOCIATE PROFESSOR levels with emphasis on problems of microbial pathogenesis including bacteria, fungi, protozoans and viruses. Applicants should have a strong background and training in molecular biology and/or genetics. The Department is well-funded and has a strong graduate program emphasizing molecular genetics. Interactions with the Duke Comprehensive Cancer Center, the Cell and Molecular Biology Program and the University Program in Genetics help provide a rich intellectual climate. In addition, the Research Triangle Park, surrounded by three excellent universities, and containing several pharmaceutical and biotechnology companies, provides a high-quality living environment. Successful applicants are expected to participate in the teaching of graduate and medical students and to develop an outstanding and innovative research program. Please send curriculum vitae, statement of research interests and the names of three potential references to: **Dr. Jack D. Keene, Professor and Chair, Department of Microbiology, Duke University Medical Center, Durham, NC 27710.**

### CELL/MOLECULAR BIOLOGIST

The Department of Zoology at the University of Hawaii at Manoa invites applications for a tenure-track faculty position at ASSISTANT PROFESSOR level beginning as early as fall 1994. Primary instructional responsibilities will include teaching and coordinating an intermediate-level course in cell/molecular biology for undergraduate students majoring in the biological sciences, and development of an undergraduate/graduate course in area of speciality. The successful applicant will be expected to develop an active research program using modern cell/molecular biological approaches in areas such as developmental biology, physiology, or signal transduction. Research that takes advantage of the natural tropical resources of the Hawaiian Islands, and demonstrated success in the acquisition of extramural research support are also desirable. Minimum qualifications include Ph.D., significant postdoctoral or comparable research experience, and demonstrated interest in and commitment to excellence in both undergraduate and graduate teaching. Applications including curriculum vitae, teaching interests/experience/philosophy, statement of future research plans, and three letters of recommendation should be sent to: **Cell/Molecular Biology Search Committee, Department of Zoology, University of Hawaii at Manoa, 2538 The Mall, Honolulu, HI 96822.** Review of applications will begin 1 July 1994 and continue until position is filled. Review of applications will begin 1 July 1994 and continue until position is filled. *Women and underrepresented minorities are encouraged to apply. The University of Hawaii is an Equal Opportunity and Affirmative Action Employer.*



## RESEARCH SCIENTISTS (CROP PROTECTION)

DuPont Agricultural Products in Newark, Delaware is seeking highly motivated and creative individuals to join our efforts in using emerging technologies to discover new crop protection products that will have a positive impact on the integrity of the environment and the quality of life.

### PLANT MOLECULAR BIOLOGIST

We are seeking a Plant Molecular Biologist to join a group of scientists using enzymology, physiology, genetics, immunology, and molecular biology to address key issues related to the discovery of safe and effective crop protection chemistry based on a fundamental understanding of biochemistry and genetics. The responsibilities for this position include cDNA cloning and characterization, design and assembly of recombinant genes, quantitative characterization of transgenic plants expressing these cloned sequences, and over-production of functional proteins in heterologous expression systems. A Ph.D. in biochemistry, molecular biology or equivalent science and postdoctoral experience in the molecular biology or genetics of higher plants is required. Familiarity with the principles of enzyme function, cell biology and plant biochemistry will be advantageous. The successful candidate should be able to communicate effectively across disciplines and will be committed to working interactively in an interdisciplinary program.

### BIOCHEMIST

As a part of DuPont's interdisciplinary approach to the discovery of novel products for the control of plant disease, an opening is now available for a Ph.D. biochemist to collaborate with chemists, plant physiologists, molecular biologists and plant pathologists. The individual filling this position will be expected to contribute to the identification of novel approaches to plant disease control. The successful candidate must have a strong background in analytical biochemistry, and a well-developed understanding of metabolic biochemistry and regulation. An understanding of the underlying biochemical and molecular biological mechanisms associated with host/pathogen interactions would be desirable. Contributions to ongoing crop protection discovery programs will be an integral part of the research as well as the ability to work creatively with multidisciplinary teams on projects of large scope.

**We are also accepting resumes from scientists with a Bachelor's degree in chemistry, biochemistry, or molecular biology who wish to be considered for openings in our Discovery Research programs.**

Interested candidates are invited to forward their resumes and a list of references to: **Dept. SCI, Box 28, 834 Chestnut Street, Philadelphia, PA 19107.** An Equal Opportunity Employer.



*Agricultural Products*

PUBLIC HEALTH SERVICE  
NATIONAL INSTITUTE OF HEALTH  
NATIONAL INSTITUTE ON DRUG ABUSE

## Director

Intramural Research Program  
at the Addiction Research Center

### A Senior Executive Service Vacancy

Location: Baltimore, Maryland

The National Institute on Drug Abuse (NIDA) invites nominations and applications for this Senior Executive Service position, located in Baltimore, Maryland.

The Director of NIDA's Intramural Research Program located at the Addiction Research Center (ARC) is responsible for the management and direction of the major Federal intramural research facility focusing on drug abuse research. The Director is responsible for planning, evaluating and directing all aspects of the preclinical and clinical intramural research program for the National Institute on Drug Abuse (NIDA). The Director manages programs of multidisciplinary laboratory and clinical research and participates in the overall development and implementation of Institute scientific objectives.

Desirable qualifications include an M.D. or Ph.D. degree with extensive postgraduate research experience; and experience in the scientific and administrative management of research programs which has established the candidate as an authority in preclinical or clinical research approaches relevant to drug abuse or related health disorders.

ES-1 through ES-6 (currently \$92,900 to \$115,700 - plus 4.23% locality rate). A recruitment bonus of up to 25% of base pay may be available to a non-federal candidate selected for this position, subject to individual approval. A relocation bonus of up to 25% may be available to a permanent federal employee who must relocate to accept this position, subject to individual approval. Physicians may be eligible for a Physician's Comparability Allowance up to \$20,000 per year. Submit applications (Application for Federal Employment, SF-171, accompanied by a current curriculum vitae and bibliography to:

**Ms. Maryann Pafitis**

**NIDA Personnel Management Branch**

**5600 Fishers Lane, Room 10-21**

**Rockville, Maryland 20857**

**Phone (301) 443-9593**

*Complete application materials (which MUST include SF-171) must be received by June 30, 1994.*

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, sex, national origin, politics, marital status, physical or mental handicap, age, membership or non-membership in an employee organization.



*NIDA is an Equal Opportunity Employer*

## POSITIONS OPEN

The George Washington University Medical Center (GWUMC) is seeking a **PROFESSOR AND CHAIR** for the Department of Microbiology and Immunology. The GWUMC seeks a distinguished Ph.D. or M.D./Ph.D. scientist with an outstanding record of scientific productivity and proven ability to attract external funding in molecular virology with an emphasis on AIDS and Cancer. The Chair will direct the expansion and integration of a program in molecular virology, microbiology and immunology. The Chair will serve as director of the interdisciplinary Research Center in Genetics and Molecular Biology and actively recruit additional faculty members. The candidate should be capable of leading the Department to a position of academic excellence and national prominence. The successful candidate will have demonstrated excellence in teaching at the medical, graduate, and postdoctoral levels, as well as leadership qualities and administrative skills necessary to develop an academic interdisciplinary program. Selection process will begin in September 1994 and continue until a successful candidate is identified. *The GWUMC is an Equal Opportunity/Affirmative Action Employer. Applications from women and minorities are encouraged.*

Applicants should submit curriculum vitae, an outline of current and future research interests, and names of three references to: **Dr. Christie A. Holland, Center for Virology, Immunology and Infectious Disease Research, Children's National Medical Center, 111 Michigan Avenue, N.W., Washington, DC 20010.**

### MOLECULAR BIOLOGIST/GENETICIST ASSISTANT PROFESSOR

Applications are invited for a tenure-track faculty position in the Department of Microbiology to develop a vigorous independent research program in molecular biology and genetics using a bacterial system. The candidate will be expected to develop collaborative interactions with either immunologists, bacteriologists or molecular biologists. Required: Candidate must have four years of postdoctoral research experience; experience in lecturing to medical students; experience with broad range of molecular techniques; research funding history. Research techniques must include expertise in DNA and RNA manipulation, protein characterization, genetic mapping and computers. Duties include teaching molecular biology and bacterial genetics to medical students and graduate student supervision. An application letter, curriculum vitae, names of three references and statement of research interests should be sent by August 15, 1994, to: **D.W. Lambe, Jr., Ph.D., Chair, Department of Microbiology, James H. Quillen College of Medicine, Box 70579, East Tennessee State University, Johnson City, TN 37614-0579. Telephone: (615) 929-6294, FAX: (615) 929-5847. Affirmative Action/Equal Opportunity Employer.**

### FACULTY POSITION THE WEIZMANN INSTITUTE OF SCIENCE

The Department of Biochemistry at the Weizmann Institute of Science, Rehovot, Israel, is seeking applicants for a tenure-track position at the Senior Scientist (**ASSISTANT PROFESSOR**) level starting in the fall of 1995 (earlier start possible). The Department of Biochemistry provides an excellent and stimulating research environment with groups conducting research in Molecular Genetics (gene expression, DNA replication and repair) and Bioenergetics (membrane transport systems and photosynthesis). Candidates are sought in these and other areas of biology, preferably with a background in protein-DNA interactions, molecular or developmental genetics, enzymology, or protein structure and biophysical methods. The successful candidate is expected to establish an independent and creative research group.

Applications should include research plans, curriculum vitae, list of publications and the names of three referees, and should be sent to: **Prof. Zvi Livneh, Head, Department of Biochemistry, Weizmann Institute of Science, Rehovot 76100, Israel.**

**ADJUNCT ASSISTANT PROFESSOR** to work in the field of developmental biology of the vasculature and/or molecular mechanisms of atherosclerotic calcification. Send curriculum vitae, bibliography and 3 to 5 references to: **L.L. Demer, M.D., Ph.D., Division of Cardiology, UCLA School of Medicine, Room 47-123 CHS, 10833 Le Conte Avenue, Los Angeles, CA 90024-1879; FAX: 310-825-4963. UCLA is an Affirmative Action/Equal Opportunity Employer.**

## POSITIONS OPEN

The Swiss Federal Institute of Technology Zurich (ETHZ) invites applications for the position of an

### ASSISTANT PROFESSOR OF PLANT BIODIVERSITY

The appointment is intended to be at the interface of plant ecology and plant systematics. Appropriate research areas include plant biodiversity, comparative plant ecology and the evolutionary ecology of plants. Experience in the application of molecular techniques in ecology or systematics would be very desirable.

The person appointed will be expected to develop courses in his or her own specialty, as well as contribute to the Geobotanical Institute's teaching programme in ecology and systematics.

The post of an assistant professor has been established to further the career of younger scientists. It is available for three years in the first instance, and renewable for another three years, and it offers a scientist with outstanding accomplishments the opportunity to be promoted to the rank of an associate professor (tenure-track).

Please submit your application, together with curriculum vitae and a list of publications, to: **President of the ETH Zurich, Prof. Dr. J. Nüesch, ETH Zentrum, CH-8092 Zurich, no later than August 15, 1994. The ETHZ specifically encourages female candidates to apply with a view towards increasing the proportion of female professors.**

**ASSISTANT PROFESSOR, NATURAL RESOURCES ANALYSIS.** Nine-month, tenure-track. Must have Ph.D. with expertise in natural resources analysis. Demonstrated expertise with geographic information systems is required. At least one degree in forestry and background in forest ecology and/or remote sensing preferred. **Duties:** Advise students and teach undergraduate and graduate courses; seek funding and conduct research in area of expertise; and participate in continuing education and service activities. **Available:** October 1, 1994. Salary commensurate and supplemented with summer salary the first five years. Application with résumé, statement of goals/interests, and transcripts and three letters of reference must be received by September 15, 1994. Direct applications and contacts to: **Dr. Thomas E. Burk, Department of Forest Resources, University of Minnesota, 115 Green Hall, St. Paul, MN 55108. Telephone: 612/624-6741, FAX: 612/625-5212. The University of Minnesota is an Equal Opportunity Educator and Employer.**

Position available for animal sleep research laboratory at Emory University School of Medicine. Depending on experience, position ranges from **POSTDOCTORAL** to **INSTRUCTOR** to **ASSISTANT PROFESSOR** (non-tenure) research track of psychiatry, available immediately for 4 to 5 years, renewable annually. Applicant must have expertise in extracellular single unit recordings in freely behaving rats. Send curriculum vitae, bibliography, references and two relevant papers to: **Gerald W. Vogel, M.D., Sleep Laboratory, Georgia Mental Health Institute, 1256 Briarcliff Road NE, Atlanta, GA 30306. Emory University is an Equal Opportunity/Affirmative Action Employer.**

### ASSISTANT/ASSOCIATE PROFESSOR Genetic/Molecular Mechanisms of Disease

The Department of Comparative Medicine, Schools of Medicine and Dentistry, University of Alabama at Birmingham (UAB), invites applications for a tenure-track position at the rank of Assistant or Associate Professor. We seek an independent investigator of genetic and molecular mechanisms in disease pathogenesis, with a strong commitment to development and use of animal models of human diseases. Investigators using innovative approaches to the study of gene expression, development of new stem cell systems (e.g., rat or rabbit), or other innovations in animal modeling are encouraged to apply. Strong background in mouse genetics desirable. Teaching responsibilities are modest and primarily at the graduate level.

The Department of Comparative Medicine cosponsors with the Department of Pathology the Graduate Program in Molecular and Cellular Pathology.

Send curriculum vitae to: **Philip A. Wood, Chair of Search Committee, Department of Comparative Medicine, Schools of Medicine and Dentistry, UAB, Birmingham, AL 35294-0019. UAB is an Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

### FACULTY POSITION DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY UNIVERSITY OF OKLAHOMA HEALTH SCIENCES CENTER

Applications are invited for a tenure-track position in the Department of Biochemistry and Molecular Biology at the **ASSISTANT PROFESSOR** level. Applicants must have a doctoral degree, substantial research experience at the postdoctoral level and have clearly demonstrated the ability to be productive. Salary will be commensurate with experience. Glycobiology is one of the present areas of strength in the Department. To expand and complement this area, we are seeking a candidate with expertise in both the biochemistry and molecular biology of glycosaminoglycan or proteoglycan biosynthesis. The successful applicant will be expected to develop and maintain a strong independent research program, supported by external funding, and to participate in teaching at the professional and graduate levels. Applications including a letter with a brief summary of future research plans, complete curriculum vitae and three letters of recommendation should be submitted before August 1, 1994, to:

**Richard D. Cummings, Ph.D., Chair, Search Committee Department of Biochemistry and Molecular Biology The University of Oklahoma Health Sciences Center BSEB, Room 325 Oklahoma City, OK 73190**

*The University of Oklahoma Health Sciences Center is an Equal Opportunity/Affirmative Action Employer.*

### MUSCLE BIOLOGIST

The University of Maryland Department of Surgery is searching for a Ph.D. with postdoctoral experience in skeletal muscle research to establish a research laboratory with an active clinical group involved in limb lengthening. Collaboration with other muscle researchers on campus is available.

This is a full-time position at the **ASSISTANT PROFESSOR** level. Excellent fringe benefit package and salary commensurate with experience. Applicants should submit curriculum vitae, a brief statement of research interests and names of three references to:

**John E. Herzenberg, M.D. and Dror Paley, M.D. Co-Directors**

**Maryland Center for Limb Lengthening and Reconstruction c/o Lois Reisig Department of Surgery 5th Floor—405 West Redwood Street Baltimore, MD 21201**

*Affirmative Action/ADA/Equal Opportunity Employer. Minorities and females are encouraged to apply.*

### ENDOWED PROFESSORSHIP in Molecular Biology and Gene Therapy

The University of Kansas Medical Center is recruiting a distinguished scientist with national and international achievements in molecular biology and gene therapy. The professorship is endowed by the Hallmark Foundation. We seek an active investigator to establish a collaborative program at the University of Kansas School of Medicine. Generous space will be allocated in a new research building. This appointment will be at the full professor level with tenure. Applications or nominations are invited. Contact: **Daniel Hollander, M.D., Executive Dean, School of Medicine, University of Kansas, Kansas City, KS 66160-7300. The University is an Equal Opportunity/Affirmative Action Employer.**

**PARKINSON'S DISEASE—Well-funded ASSISTANT TO FULL PROFESSOR** to head Parkinson's Center. Start-up funds and generous space sufficient to accommodate several accompanying junior faculty. New 50,000 square foot research and library buildings. Extraordinary access to patients and postmortem samples from well-established brain bank. Extramural funding an absolute requirement. *The Sun Health Research Institute, located in suburban Phoenix, is an Equal Opportunity Employer with an internationally recognized, NIH-funded program in Alzheimer's disease.* Send résumé, including details of transferable grant support, to: **Dr. Joseph Rogers, Director, Sun Health Research Institute, P.O. Box 1278, Sun City, AZ 85372.**



*Zeneca Pharmaceuticals is part of a UK based bioscience company which ranks amongst the most innovative companies in the world with an enviable portfolio of cardiovascular, oncology, anti-infective and anaesthetic products. During the next 10 years we will be expanding rapidly and spending £3-4 million on R & D to bring forward a full development pipeline of new exciting medicines.*

*Already a significant global force with a renowned influence on world health, these new and high profile appointments further strengthen our commitment to develop safe and effective drugs. The appointments within Safety of Medicines Department will reinforce our project based approach to drug safety evaluation, requiring individuals with a proven track record in safety evaluation, together with a PhD, ideally combined with a professional qualification in toxicology.*

## INTERNATIONAL PROJECT TOXICOLOGISTS

With responsibility for the overall safety evaluation program of 6 - 8 compounds in specific therapeutic areas, you will lead a team of scientists responsible for delivering an Internationally acceptable program of toxicology studies. As a member of the International Drug Development Strategy teams, you will ensure that clear goals are set for the toxicology evaluation that support the clinical and commercial objectives. You will be responsible for ensuring that the overall interpretation of the preclinical toxicology database underpins these objectives and regulatory submissions.

Your safety evaluation team will include operational Toxicology Project Managers and multidisciplinary Study Directors, and thus

you will require considerable skill in managing the program while facilitating the freedom to act, and developing individuals within their specific sphere of influence, always striving for high quality, timely and innovative project delivery.

With wide ranging experience and expertise in drug development and safety evaluation, you will be articulate and assertive and be able to project the right image for Zeneca in the International business, regulatory and clinical arena. Influential, analytical and flexible, you will continually assess ways of improving Zeneca's safety evaluation processes with a freshness of approach that ensures that Zeneca Pharmaceuticals remains at the forefront of the Industry's thinking. (Reference: SOM33)

## TOXICOLOGY PROJECT MANAGERS

In conjunction with the International Project Toxicologist, you will develop, refine and implement the toxicology plan that supports the overall drug development strategy. Responsible for preparing the initial safety evaluation overview for dosing to man you will call on specialist experts as required and become the department focus for all operational aspects of toxicology on your allotted compounds, and therefore responsible for ensuring that study reports are issued on time and to the highest

standards of scientific quality. In addition to being results oriented, your enabling and influencing skills, and ability to react effectively to changing and competing priorities, whilst providing clear leadership to your compound teams, are crucial attributes of this job.

Your conceptual and analytical thinking will be second to none, evidenced by an impressive track record in a similar role elsewhere. (Reference: SOM34)

*A fresh, new and highly innovative company with a wealth of established credentials, we can offer attractive prospects for career development. The rewards offered include performance bonus, private healthcare and generous relocation assistance to the heart*

*of beautiful Cheshire in the North West of England. Please write with a comprehensive cv quoting the appropriate reference to: The Personnel Officer, ZENECA Pharmaceuticals, Mereside, Alderley Park, Macclesfield, Cheshire, England SK10 4TG.*

**ZENECA** Pharmaceuticals

BRINGING HEALTH TO LIFE

## POSITIONS OPEN

The Erna and Jakob Michael Visiting Professorships  
1995/96  
The Joseph Meyerhoff Visiting Professorships  
1995/96  
The Rosie and Max Varon Visiting Professorships  
1995/96

The Weizmann Institute of Science, Rehovot, Israel, offers a limited number of Visiting Professorships in the Natural and Exact Sciences.

The Visiting Professorships are intended for candidates already holding the rank of Full Professor or equivalent and will be for a duration of two months to one year.

Deadline for submission of completed applications is: December 31, 1994.

For further information or application forms, please contact: The Academic Secretary, The Weizmann Institute of Science, Rehovot 76100, ISRAEL. (Telex: 972-8-381300, Facsimile: 972-8-471667, Bitnet: RSMARJOR@WEIZMANN.WEIZMANN.AC.IL).

### ASSISTANT/ASSOCIATE PROFESSOR PROGRAM IN MOLECULAR AND CELLULAR BIOLOGY

Outstanding candidates are being sought for tenure-track positions to join a rapidly growing group of 30 plus members in the Program in Molecular and Cellular Biology. Candidates should have strong research programs within the broadly defined areas of biochemistry and cell, molecular and developmental biology which will serve to complement those areas of research currently in existence. Candidates should have demonstrated evidence of productivity. Teaching duties are modest and will be primarily at the level of graduate student and postdoctoral fellow education. Salary, space and start-up funds are competitive with national levels. Interested individuals should submit curriculum vitae, a brief description of research plans and the names of three individuals who will serve as references to: Dr. Douglas M. Stocco, Chair, Search Committee, Program in Molecular and Cellular Biology, Texas Tech University Health Sciences Center, 3601 4th Street, Lubbock, TX 79430 before 1 January 1995. *Equal Opportunity Employer.*

### University of California, Irvine (UCI) Macromolecular Sequencing/Synthesis Core Facility

The University of California, Irvine, is seeking a MANAGING DIRECTOR who will be responsible for the daily operation, training and supervision of staff, and financial management of the core facility, which provides protein sequencing, peptide synthesis, peptide purification, amino acid analysis, DNA sequencing and oligonucleotide synthesis services to a large number of investigators in biochemistry and molecular biology. A Ph.D. in an appropriate scientific discipline and 3 years of experience in protein sequencing and peptide purification are required. Experience with the operation of core facility instrumentation is essential. Ability to collaborate with facility users on protein sequencing in their research, and to perform protein sequencing analyses for independent research is desired. Salary commensurate with experience. Appointment to non-tenure-track academic position possible. Submit résumé and names and addresses of three referees to: Ms. Joanne Swenson, Senior Personnel Analyst, School of Biological Sciences, University of California, Irvine, CA 92717. Applications will be reviewed continuously beginning July 15, 1994. *UCI is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.*

### ASSOCIATE DEAN FOR RESEARCH AND GRADUATE STUDIES

The Auburn University College of Veterinary Medicine invites applicants with a distinguished record of achievement in veterinary or biomedical research and substantial experience in graduate education. Veterinary and Ph.D. degrees are highly desirable; administrative experience is preferred. Application deadline is August 15, 1994, or until the position is filled. Please direct inquiries or submit letter of intent, curriculum vitae, and names of 5 references to: Lauren G. Wolfe, Chair of Search Committee, College of Veterinary Medicine, Auburn University, AL 36849-5519. Telephone: 205/844-4539; FAX: 205/844-2652. *Auburn University is an Affirmative Action/Equal Employment Opportunity Institution. Women and minorities are encouraged to apply.*

## POSITIONS OPEN

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

Candidates at the level of Associate or Full Professor are sought with a strong track record of research and peer-reviewed funding to lead the Neuro-Oncology program at the Medical College of Virginia's Massey Cancer Center. The Neuro-Oncology program consists of a group of collaborating faculty in basic and clinical departments who share common interests in cellular physiology, biochemistry, biophysics and molecular genetics of normal and malignant neural tissues. The applicant will have a tenurable primary appointment in a basic science department appropriate to his/her research interests and academic background. The qualified candidate will be expected to lead and facilitate multidisciplinary research efforts, and to participate in the Graduate program and other affairs of the designated academic department and University. M.D.'s or Ph.D.'s will be considered.

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

*VCU is an Equal Opportunity/Affirmative Action Employer.*

**FACULTY POSITIONS IN BIOCHEMISTRY.** The Ohio State University invites applications for tenured or tenure-track positions in the Department of Medical Biochemistry, College of Medicine. Rank is open. One position is offered in conjunction with the Center for Molecular Environmental Health and will be filled by an individual who has demonstrated research productivity in one or more of the following areas: molecular epidemiology, molecular genetics, molecular medicine or molecular biochemistry. For the other position, area is open. Applicants must have a Ph.D. and/or M.D. degree with postdoctoral training. An ongoing funded research program is also required. Successful candidates will be expected to maintain an independent funded research program and to participate in departmental teaching activities. We offer a competitive salary, benefits package and start-up funds. Send curriculum vitae, a description of research interests, three recent publications and the names of three references to: Dr. Douglas R. Pfeiffer, Chairman Search Committee, The Ohio State University, Department of Medical Biochemistry, 1645 Neil Avenue, Hamilton Hall, 310A, Columbus, OH 43210. Applications will be accepted through August 31, 1994.

*The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, Vietnam-era veterans, disabled veterans and individuals with disabilities are encouraged to apply.*

Partner for "post-to-post" job exchange Great Britain-U.S.A., for academic year 1995-6, under FULBRIGHT TEACHER EXCHANGE PROGRAM. Subject: Biology with leanings toward Chemistry, first year University/College (particular interests in Biochemistry, Nutrition, Radiation Biology would be ideal). Travel costs paid for, accommodation available. Anyone interested please contact as soon as possible: Dr. C. C. Thornburn, Department of Pharmaceutical and Biological Sciences, University of Aston, Birmingham B4 7ET, Great Britain. (Telephone: + 44 21 359 3611).

**POSTDOCTORAL POSITION** available for a recent Ph.D. of biochemistry or cell biology who is interested in biological applications of AFM. Some experience with EM and light microscopy desirable and experience with AFM not required. Send curriculum vitae, names of references and research interest to: Dr. Zhifeng Shao, Department of Physiology, Box 449, University of Virginia, Charlottesville, VA 22908 by August 10, 1994. *UVA is an Equal Opportunity Employer.*

**POSTDOCTORAL POSITIONS.** Available in Departments of Anatomy, Biochemistry, Molecular and Cellular Biology, Microbiology and Immunology, Pharmacology/Toxicology, and Physiology. Applicants must have a Ph.D. or M.D. degree. Positions available during 1994 and 1995. Closing date: 31 December 1994 or until positions are filled. *Women and minorities are urged to apply.* Send applications to appropriate department head: The University of Arizona, Arizona Health Sciences Center, Tucson, AZ 85724. *An Equal Opportunity/ADA/Affirmative Action Employer.*

## POSITIONS OPEN

**POSTDOCTORAL POSITION** available immediately to conduct research in the general area of cancer experimental therapeutics with particular emphasis on molecular mechanisms of taxol sensitivity and resistance. Position would involve work on transfection and expression of genes that regulate apoptosis in human bone marrow and cancer cells. Send curriculum vitae and names of three references to: Kapil N. Bhalla, M.D., Department of Medicine, Division of Hematology/Oncology, 903CSB, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425.

**POSTDOCTORAL POSITION** available for studying vesicle traffic using cell-free techniques. Research focus is on regulation of endocytosis and the role of GTP-binding proteins. Recent Ph.D. in biochemistry, cell biology, or related field required; background in receptor studies, protein purification, and/or molecular biology would be helpful. Send curriculum vitae and names of three references to: Dr. Marianne Wessling-Resnick, Department of Nutrition, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115.

### ENDOTHELIAL CELL BIOLOGY HARVARD MEDICAL SCHOOL

**POSTDOCTORAL POSITIONS** available to study structure/function of receptors and caveolae in endothelial transport with or without pathology (ie, inflammation, neoplasia, ischemia and atherosclerosis). Experience in protein biochemistry (purification, 2-D gels, microsequencing), cell biology (antibody production, vesicular trafficking, immuno-electron microscopy, signal transduction, membrane fusion) and/or molecular biology (mutagenesis, cloning, sequencing, recombinant expression) is required: Please send curriculum vitae, a research summary, 2 to 3 reprints, and 3 references to: Jan E. Schnitzer, M.D., Harvard Medical School, Department of Pathology, Research North-Beth Israel, 99 Brookline Avenue, Boston, MA 02215. *An Equal Opportunity Employer.*

### POSTDOCTORAL POSITION

Postdoctoral Position: Loyola University Medical Center/Hines VA Hospital. Available August 1, 1994. Studies involve tumor biology and cytokine interactions in cancer and other disease states. Candidate should have previous postdoctoral experience in molecular biology and immunology. Send curriculum vitae, the names of three references and reprints to: Rita Young, Ph.D., Hines VA Hospital, P.O. Box 7003, Hines, IL 60141-7003.

### DANA FOUNDATION POSTDOCTORAL SCHOLARS PROGRAM IN BIOLOGICAL IMAGING AT UCLA

The Department of Molecular and Medical Pharmacology is currently seeking qualified Ph.D. applicants with expertise in behavioral pharmacology related to the neurobiology of addiction. The project will involve the design and implementation of drug self-administration paradigms in non-human primates to assess alterations in metabolism and neurotransmitter systems by drugs of abuse. This research project is part of a Dana Foundation Scholars program that also carries out a similar range of studies in human subjects. Please submit curriculum vitae, a description of research goals and the names and addresses of three references to: Dr. William P. Melega, Department of Molecular and Medical Pharmacology, 23-145 CHS, UCLA School of Medicine, 10833 Le Conte Avenue, Los Angeles, CA 90024-1735. *UCLA is an Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITION** available immediately in molecular biology of tumorigenesis and/or immunology of virally transmitted, neurogenic tumors in a marine fish. Experience in molecular biology, virology or immunology required. Additional postdoctoral positions available soon in neurophysiology and metabolic physiology of marine toxins. Appointment for 2 years at \$25,000 per annum. Send curriculum vitae and names of three references to: Dr. Michael C. Schmale (immediate position) or Dr. Daniel G. Baden (other positions), NIEHS Marine/Freshwater Biomedical Sciences Center, University of Miami, 4600 Rickenbacker Causeway, Miami, FL 33149. *The University of Miami is an Affirmative Action/Equal Opportunity Employer.*

**TARA**  
TSUKUBA ADVANCED RESEARCH ALLIANCE



# Tsukuba Advanced Research Alliance University of Tsukuba, Japan

## University of Tsukuba invites applications for seven new Professors to lead innovative research in Tsukuba Science City



**Leo ESAKI**  
*President*  
*University of Tsukuba*  
Nobel prize for physics (1973)

University of Tsukuba is now establishing a new research institution, the Tsukuba Advanced Research Alliance (TARA) Center, and wishes to appoint professors to conduct and coordinate frontier research. The function of TARA will be to stimulate interdisciplinary research in the following fields by integrating research in the University of Tsukuba with other public and private institutions. By the creation of research forums within TARA, we intend to catalyse and induce cross-fertilization to contribute to the global advancement of knowledge.

- i) Biological Sciences**  
Research on fields such as gene regulation, cell-cell interaction, morphogenesis, molecular and cellular biology of signal transduction, integrative neural functions, and apoptosis.
- ii) Material Sciences**  
Studies on electronic and optoelectronic properties in superlattices, quantum wires and dots, and other nanostructures, including exploitation of nanoscale technology and exploration of intriguing materials.
- iii) Information Management through the Multimedia**  
Research on hardware, software and networks, and the role of the multimedia in and with the information society.
- iv) Human Beings in the Ecosystem**  
Scientific, technological and philosophical research on human interactions in the environment.
- v) Liaison, Research Management, Intellectual Property and Technology Transfer**  
Development and promotion of interdisciplinary research by cooperation among universities, public and private institutions at national and international level.

English speaking ability is required. Appointments will be made independent of sex, belief, race or nationality. Salary will be in line with the regulations set out for Faculty of a Japanese National University, with retirement at 63 years. Subsidised housing is generally available to University staff. Tsukuba Science City is located 60 km North-East of Tokyo in an attractive environment.

*Further information is available upon request. Applications, including curriculum vitae, reprints of representative work, addresses of three referees, should be postmarked before 31 August, 1994 to:*

*Mr. H. Saito, Administrative Manager  
TARA Office, University of Tsukuba,  
Tsukuba Science City, 305 Japan  
Fax: +81-298-53-6074*

POSTDOCTORAL OPPORTUNITIES  
STATE UNIVERSITY OF NEW YORK AT STONY BROOK

**Institute for Pharmaceutical Discovery  
& Chemical Synthesis**

Faculty research directors from this Institute have diversity and depth in developing and studying new chemical entities with novel biological functions. Over sixteen faculty and sixty research scientists are affiliated with programs in biological, synthetic, and medicinal chemistry as well as structural biology and biochemistry.

The following Institute members seek postdoctoral associates:  
Faculty name/Dept/z code/Research foci

T.W. Bell/Chemistry/z=3400/synthesis of new antiviral (anti-HIV) drugs/designed reagents and sensors for clinical chemistry/synthetic complexing agents for metals and organic compounds

C.J. Burrows/Chemistry/z=3400/bioinorganic chemistry of nickel with nucleic acids/redox chemistry of metal peptides and biopolymers/synthesis and bioactivity of steroidal polyamines

B. Chu/Chemistry/z=3400/Postdoc: DNA capillary gel electrophoresis with FRAP microscopy/80% Sr. Research Scientist: Supramolecules, polymer colloids, cobalt soaps by light scattering, synchrotron SAXS, rheometry, experience in student supervision

G.D. Prestwich/Biological Chemistry/z=3400/structure of oxidosqualene cyclase catalytic site/inositol polyphosphate receptor photoaffinity probes/insect hormones regulating gene expression

S. Rokita/Chemistry/z=3400/conformation and sequence-specific modification of nucleic acids/biological activity of nickel and nickel complexes/mechanistic enzymology of aromatic substitution reactions

N. Sampson/Chemistry/z=3400/loop function in catalysis by steroid binding enzymes/protein-protein interactions in mammalian fertilization

S. McN. Sieburth/Chemistry/z=3400/design and synthesis of biologically active small molecules: new methods for synthesis, protease inhibitors, SAR

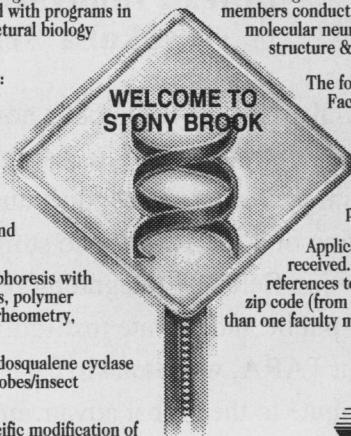
**Institute for Cell &  
Developmental Biology**

The Institute was created to focus on a diversity of research expertise to the understanding of critical issues in human biology and disease. Forty faculty members conduct research in the areas of gene regulation, cancer biology, molecular neurobiology, cell signalling & communication, and biological structure & intracellular trafficking.

The following Institute members seek postdoctoral associates:  
Faculty name/Dept/z code/Research foci

S. Fields/Molecular Genetics and Microbiology/z=5222/yeast signal transduction and transcriptional regulation/tumor suppressor p53 function/protein linkage maps describing networks of protein-protein interactions

Applications may be submitted at anytime and will be evaluated as received. Applicants should send curriculum vitae and three references to: University at Stony Brook, Attn: Faculty name/department/zip code (from above), Stony Brook, New York 11794. If applying to more than one faculty member, please submit separate applications.



The Center, in partnership with the Institutes, nurtures cooperative research among academic and industry scientists to accelerate basic discovery and the rapid transfer of new technologies to the marketplace.

Sponsored by the New York State Science & Technology Foundation.

University at Stony Brook is an Equal Opportunity Employer. Female and minority applicants are encouraged to apply.

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**Global Programs,** for innovation. Combining the resources of a global organization with the dedication of world class scientists, we have set new standards in the biotechnology industry.

**Global Results** **Scientist—Molecular Biology**  
We are seeking a post-doctoral fellow to study retrovirus-receptor interactions.

The overall objective will be to use GALV, MLV-A and their cloned receptors to elucidate the mechanism of receptor recognition and the mechanism of fusion with the cell membrane. A PhD and experience in retrovirology or virology are desired.

We offer a competitive salary and benefits package. Applicants should send their resume, along with salary requirements, to: Lederle Laboratories, Medical Research Division, Dept. BO, 401 Middletown Road, Pearl River, NY 10965. We are an equal opportunity employer.



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The selected individual will research and utilize methods requiring biochemical and other technologies of relevant biological sciences for validating concepts to develop new surgical products. Qualifications include 2+ years R&D experience, a Ph.D. and a strong background in biochemistry. Research experience should be related to bioactive/therapeutic compounds and cellular function/physiology. Technical skills should include biochemical, cell biology, analytical and molecular methodologies. Knowledge or experience in eye and health care industry R&D is a plus.

Reach for the next step - a career with Alcon Laboratories. Our beautiful 160-acre campus is located in **Fort Worth, Texas**, renowned for a warm climate, plentiful housing and a variety of cultural and recreational activities. Enjoy substantial opportunities for career advancement and an excellent salary and benefits package. For consideration, please forward your resume to: Alcon Laboratories, Inc., Placement and Development, T1-3 (SS), P.O. Box 6600, Fort Worth, TX 76115. Equal Opportunity Employer, M/F/D/V. Principals Only, Please.

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**DIRECTOR  
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AND ENGINEERING INSTITUTE  
(ESEI)  
PURDUE UNIVERSITY**

Purdue University is seeking a Director for the newly established Environmental Sciences and Engineering Institute. The Institute provides a University-wide focus and coordination of interdisciplinary environmental research and education, and is composed of five research centers with participation of faculty from five schools. The Director will coordinate and promote ESEI activities within the University. The Director will provide leadership in the development of institutional strategies to foster opportunities for collaborative environmental research with governmental and private sectors. The Director will also assist faculty by identifying research opportunities and organizing environmentally related multi-disciplinary research, teaching and outreach activities. The individual must have a Ph.D. in an environmentally related discipline. He or she is expected to develop or maintain an extramurally funded research program. Administrative and academic experience should be commensurate with a senior level faculty appointment. The Director will report to the Vice President for Research and Dean of the Graduate School. Screening of applicants will begin August 15, 1994 and continue until the position is filled. Nominations or applications containing a resume and names of three references should be sent to:

Gary E. Isom, Chairperson  
ESEI Search Committee  
1021 Hovde Hall, Room 313  
West Lafayette, IN 47907-1021  
(317) 494-6209

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**POSTDOCTORAL  
FELLOW**

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As a member of our Biotechnology Development operations in New Jersey, you will be part of a diverse group of scientists investigating molecular biological and biochemical methods to enhance the effectiveness of Interferon in killing tumor cells.

To qualify, you will need a PhD in Molecular Biology or Biochemistry and skills in cloning in mammalian cells. Excellent communication, reporting and interpersonal skills are a must.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to forward a resume with salary requirements, to: Human Resources Manager, Dept. PL-TM94-201/SC, Schering-Plough Research Institute, 1011 Morris Avenue, Union, NJ 07083. We are an equal opportunity employer.



**Schering-Plough  
Research Institute**

*Using Science For Human Advantage*

**POSTDOCTORAL POSITIONS/  
Molecular Biology**

**Tampa Bay Research Institute/  
Salem-Teikyo University  
Joint Biotechnology Program.**

Several postdoctoral positions are available immediately in the following areas of research:

Meihan Nonoyama, Ph.D. - Latency of Epstein-Barr Virus (EBV). Origin of EBV DNA replication, protein-DNA interaction.

Jean-Numa Lapeyre, Ph.D. - Radiation inducing genes and development of viral vectors for gene therapy.

Lautaro Perez, Ph.D. - Mechanism of entry of the human immunodeficiency virus (HIV), structure-function relationship of the envelop glycoprotein complex.

Yasaman Shirazi, Ph.D. - Cloning, characterization and expression of latency-associated genes of Marek's Disease Virus; Identification of cellular proteins that interact with HIV.

Research will be carried out at the Tampa Bay Research Institute. Candidates should have a Ph.D. with a strong background in molecular biology, gene expression, or virology. Candidate should send C.V. and names of three references directly to the appropriate scientist at Tampa Bay Research Institute, 10900 Roosevelt Boulevard, St. Petersburg, Florida 33716.

**Postdoctoral Training  
Toxicology and Carcinogenesis**

Positions are available for studies in various aspects of cancer research and toxicology in the Center in Molecular Toxicology through the Departments of Biochemistry, Chemistry, Medicine, and Pharmacology. Areas of investigation relating to toxicology and carcinogenesis are: 1) enzymatic oxidation, 2) oxidative damage, 3) DNA adduct chemistry, 4) mechanisms of mutagenesis, 5) structural and regulatory biology, 6) analytic method development, and 7) molecular epidemiology and prevention. Salaries are negotiable.

FACULTY

Ian A. Blair	Lawrence J. Marnett
Raymond F. Burk	Jennifer A. Pietenpol
Raymond N. DuBois	Michael P. Stone
F. Peter Guengerich	Michael R. Waterman
Thomas M. Harris	

Applicants should submit curriculum vitae and three letters of recommendation to Dr. F. Peter Guengerich, Director, Center in Molecular Toxicology, Vanderbilt University, School of Medicine, Nashville, TN 37232-0146

*An Affirmative Action/Equal Opportunity Employer*

# WYETH - AYERST RESEARCH

## Women's Health Research Institute

Wyeth-Ayerst is a global leader in women's health-care products and research, helping to improve the lives of women every day. We are now the number one provider worldwide of hormone replacement therapy and hormonal contraceptive products and at the forefront of international efforts to improve women's health through research and education.

Currently we have the following opportunities available for Research Scientists (Ph.D. and 3-5 years experience) and Senior Scientists (Ph.D. and 0-3 years experience). Strong emphasis in all areas will be on the discovery of molecules which may provide therapeutic strategies for the treatment of disorders affecting women's health and for fertility regulation.

### PEPTIDE PHARMACOLOGY GROUP

**Ph.D. Endocrinology** – This position, focusing on gonadotropins, requires a strong background in endocrine research using cellular and molecular biology procedures. Experience with protein/peptide purification, cell culture and development of animal models to evaluate fertility is desirable.

**Ph.D. Cell Biology, Biochemistry** – This position, dealing with neuroendocrine aspects of reproduction, requires a strong background in neurosteroid effects on neuroendocrine systems using cellular and molecular biological techniques. Experience in neuronal cell culture, receptor binding and development of in vivo and in vitro bioassays for evaluating steroid activity in neuroendocrine cells is desirable.

**Ph.D. Cellular or Molecular Biology** – This position, targeting the ability of steroids to modulate enzymatic activity in neural tissues, requires a strong background in biochemistry and molecular biology. Experience in cell culture and development of enzyme kinetic assays is desirable.



### ENDOCRINOLOGY GROUP

**Ph.D. Cell Biology** – This position, focusing in the endometriosis area, requires a strong background in endometrial research using cellular and molecular biology techniques. Experience with protein purification, animal model development and immunological effects on fertility is desired.

**Ph.D. Pharmacology** – This position, studying steroid effects on the cardiovascular system, requires a strong background in cardiovascular research using cellular and molecular techniques. Experience with cardiovascular targets of steroid hormone action is desirable.

**Ph.D. Cellular or Molecular Biology** – This position, focusing on novel targets for steroid hormone action, requires experience in transcriptional regulation by steroid receptors. A background in progestin and/or estrogen receptor pharmacology is desirable.

For all of the above positions, prior pharmaceutical experience would be an asset, but it is not essential. Wyeth-Ayerst offers an excellent compensation and benefits package in a highly professional environment. Please respond by sending your resume with salary history/requirements to: **WYETH-AYERST RESEARCH, Human Resources, Position S-WHRI, P.O. Box 8299, Philadelphia, PA 19101-0082.** Equal Opportunity Employer, M/F/D/V responses encouraged.

## BioGenex

BioGenex, a world leader in medical diagnostics and DNA synthesis products, was recently voted one of the fastest growing companies in the San Francisco Bay Area. We currently have opportunities for:

### R&D Scientists

Candidates should have training or experience in the development of research and diagnostic products, and an advanced degree in Cell Biology, Immunology, Anatomic Pathology, Organic Chemistry, Molecular Biology, or Biochemistry.

### Manufacturing and QA Professionals

Successful candidates should have an advanced degree in science, prior experience in manufacturing, quality control, quality assurance and GMP. Previous experience with diagnostic or research product lines helpful.

### Sales/Marketing Professionals

In addition to a life sciences degree, the successful candidates should have prior experience in sales and/or marketing, have excellent communication skills, and be willing to travel.

We seek dynamic, high energy, self motivated and results oriented individuals to work in a small team oriented environment.

BioGenex offers a competitive salary, stock option plan, and excellent benefits. Send/FAX resume to:

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You will initiate research projects to test neurotrophic factors and related molecules in animal models of neurodegenerative diseases. The focus will be on models of age-related memory dysfunction, Parkinson's disease, and peripheral neuropathies. While behavioral analysis will represent the main task, you are

expected to also participate in the morphological and biochemical analysis of the test animals' brains. You will be encouraged to develop strong, independent research interests and collaborations. A PhD in neuroscience or equivalent and 2+ years' post-doctoral experience in behavioral neuroscience are required.

Genentech offers a challenging career opportunity and an excellent benefits program. Send your resume to Genentech, Inc., Human Resources, Job Code: WR-FH, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal employment opportunity. Women and minorities are encouraged to apply.

## Genentech, Inc.

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At CV Therapeutics, a growing biopharmaceutical company focused on cardiovascular diseases, we have a clear-cut advantage in the development of novel drugs. Our proprietary technology and scientific team put our research efforts at the forefront of the industry. We are currently seeking an outstanding LIPID BIO-CHEMIST to contribute to our research and product development efforts in identifying novel lipid mediators of chronic inflammation.

You will be responsible for the extraction, separation and characterization of a lipid factor mediating inflammation. This will involve analyzing intermediates involved in the metabolic pathways of synthesis and evaluating the effects of synthesized inhibitors.

Requirements include a Ph.D. and a minimum of 3 years' experience in analysis of lipid mediators of inflammation and chromatographic techniques (TLC and HPLC) for the separation of lipids. Knowledge of lipid analytical techniques (mass spectroscopy, NMR, infrared spectroscopy) and experience with bioassays preferred.

Learn more about all of the professional and personal advantages we offer our people. Send your CV and the names of three references along with a cover letter to Pat Donchin, CV Therapeutics, Inc., JC: LM/LB, 3172 Porter Drive, Palo Alto, CA 94304. EOE.

 CV THERAPEUTICS

*PRIZM Pharmaceuticals, Inc., is a private company engaged in the development of therapeutic products based on the exploitation of the regulation of growth factors and their receptors. Our unique technology has given us a proprietary edge in taking on the multifaceted challenges associated with a diverse range of human disease, including cancer, heart disease, as well as skin and eye disorders. Join us as we aggressively pursue new product development programs as a member of our Research team.*

### Research Scientist

The motivated Ph.D.-level scientist we select will be involved in designing novel gene constructs, expressing active proteins, and optimizing protein expression. This will require an extensive background in site-directed mutagenesis, PCR, and DNA cloning, along with experience in bacterial, baculovirus and mammalian protein expression. Strong communication and presentation skills are musts. *Ref. GEN*

### Pharmacology Scientist

This scientist will be responsible for studying and improving the efficacy of drugs developed within PRIZM, evaluating drugs for in-licensing, and developing PRIZM drug rationales. You will need a Ph.D. in Pharmacology or a closely related field, 3-5 years' postdoctoral experience, a strong foundation in research, a clear understanding of experimental design, and the ability to create focused strategies that advance projects. Prefer oncology and ophthalmology experience. *Ref. PHA*

### Toxicology Scientist

You will be charged with studying the basic mechanisms of toxicity of candidate drugs in appropriate animal models. This will entail designing the strategy for toxicology studies to move drugs from preclinical into Phase I, creating reports for FDA filings, and leading a technical staff. You will need a Ph.D. or equivalent advanced degree in Toxicology or Pharmacology and 3-5 years' experience in toxicology from a hypothesis-based approach. A strong background in the design and interpretation of toxicology studies in compliance with GLP and GMP guidelines is also required. *Ref. STO*

### Pharmacokinetic Scientist

We seek a scientist with a Ph.D. or equivalent with an emphasis on Pharmacokinetics, Pharmaceutical Chemistry, Pharmacology or Biochemistry and 2-5 years' industrial experience in pharmaceuticals or biotechnology. The successful candidate will study the pharmacokinetic behavior of drug candidates in appropriate animal models. This will involve designing methods for potential drugs that exhibit optimal therapeutic efficacy and minimum side effects, and preparing FDA filings. A strong background in protein metabolism, experience in analysis of protein drugs in animal models, and demonstrated excellence in hypothesis-based research are also required. *Ref. SPK*

### Cell Biology Scientist

Leading a technical staff to support this project, you will be responsible for creating hybridomas that recognize various antigens expressed in soluble form or on the cell surface. Your functions will include identifying and mapping specific epitopes on target antigens, creating diagnostic assays, and developing a commercially suitable diagnostic kit that recognizes specific cells. We require a Ph.D. or equivalent background in Cell Biology, Immunology or related area, 2-5 years' postdoctoral experience, preferably in the pharmaceutical or biotechnology industry, a good understanding of FDA guidelines, plus a strong background in cell biology and immunology. *Ref. CCI*

### Animal Lab Scientist

This B.S.-level scientist will be responsible for the design and analysis of humane animal model studies to test the efficacy and performance of drugs. In addition to a Bachelor's degree, you will need 2-5 years of experience using animal models and caring for animals and a strong understanding of the regulatory requirements that apply to animal modeling for drug evaluation. The ability to think creatively, follow specific directions and keep accurate records are also required. Prefer oncology and ophthalmology experience. *Ref. SCMA*

All positions require individuals with strong verbal skills, the ability to write clear reports, and the desire to work in a team situation and support the studies of other groups.

*PRIZM offers a highly stimulating research environment, in which team synergy and scientific curiosity are encouraged. Please send your C.V./resume today, referencing position of interest, to: PRIZM Pharmaceuticals, Human Resources/Ref. \_\_\_\_\_, 10655 Sorrento Valley Road, Suite 200, San Diego, CA 92121. An equal opportunity employer.*



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**Responsibilities:** Lead an existing interdisciplinary team of senior-level scientists and engineers in the development of a prototype system and then complete the system. Seek funding for development of the full system through partnerships with industry and governmental agencies, for technology transfer to environmental and other industries that undertake environmental remediation activities. The project will also involve collaboration with a major California military base and other DOE laboratories.

**Requirements:** Extensive experience in team leadership. Excellent communication, negotiation and project management skills. Training in science, engineering, computer science or risk analysis. Experience in developing funding and in technology transfer. **Desirable:** Experience in multi-disciplinary team leadership, software project management, development of partnerships with environmental or other industries and regulatory risk assessment.

Our affiliation with the University of California system allows for excellent benefits. Please send your resume with salary history to: **Lawrence Berkeley Laboratory, Staffing Office, Job# JSCI2559, One Cyclotron Road, Bldg. 938A, Berkeley, CA 94720.** An equal opportunity employer.



**LAWRENCE BERKELEY LABORATORY**  
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Our Medical Associates establish relationships within major managed care organizations for the purpose of acting as scientific liaison and providing in-depth information regarding SmithKline Beecham products. This includes the training of representatives and medical professionals. Travel 40%.

To qualify, you must have a Pharm.D. or Ph.D in Pharmacology, Toxicology, Microbiology or related life sciences. Strong marketing and communication skills and a high degree of initiative are also required. Opportunities currently exist in the Northern and Southern California areas.

We offer one of the best compensation packages—including a car—in the industry. If you'd like to be a part of our success, send your resume with salary history to: SmithKline Beecham, Central Employment, 200 Q North 16th Street, Philadelphia, PA 19101. We are an Equal Opportunity Employer, M/F/D/V.



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Gilead Sciences is a leader in the discovery and development of a new class of human therapeutics based on nucleotides, the molecular building blocks of DNA and RNA. The Company's research and development efforts encompass three inter-related programs: small molecules, aptamers and code blockers. These research programs are focused on potential human therapeutics for certain types of viral infections, vascular disease, inflammatory disease and cancer. Come join us in the following Research Scientist role.

### Research Scientist Drug Delivery/Metabolism

You will conduct research in the area of drug delivery and metabolism of nucleotide-based therapeutics to aid in the selection and development of drug molecules. This will include performing *in vivo* and *in vitro* metabolic studies; developing and applying analytical methods for the determination of drugs and metabolites in biological matrices; and isolating and identifying metabolites. Along with a PhD and 3-5 years' experience, your background should demonstrate proven technical skill and knowledge of *in vivo* and *in vitro* metabolic studies, kinetic modeling, HPLC, radiochemical methods, metabolite isolation and identification, drug delivery technology, and tissue culture techniques.

As an emerging force in the biotechnology industry, Gilead provides a comprehensive compensation and benefits package, which reflects our leadership and dedication to our science. To learn more, please send or fax your resume/C.V. to: Human Resources, Gilead Sciences, 353 Lakeside Drive, Foster City, CA 94404, fax (415) 573-4800. We are proud to be an equal opportunity employer.

**GILEAD**  
SCIENTES

# Procter & Gamble

## PhD ENVIRONMENTAL SCIENTISTS/ ECOTOXICOLOGISTS

The Procter & Gamble Company has immediate openings for scientists to work on the environmental safety of consumer products. These positions, located in our R&D laboratories in Cincinnati, are ideal for individuals who desire careers in environmental science.

The successful candidates will have a PhD in ecotoxicology, ecology, environmental chemistry (including environmental monitoring and laboratory methods for biodegradation assessment), or ecological modeling. Postdoctoral training in one or more of these areas is desirable. Experience with environmental risk assessment, government regulation of new chemicals, and preparation of regulatory submissions is helpful. Successful candidates will have good communication skills, a high level of initiative and commitment, and strong interpersonal skills. Candidates who meet these qualifications and will be available to begin work in calendar year 1994 are invited to apply.

Procter & Gamble is a world leader in the research, development, manufacture, and marketing of a wide variety of consumer products. Annual sales exceed \$30 billion, and our annual R&D investment is \$1 billion. P&G offers a competitive salary and benefits package, placing us among the top 5% of U.S. firms. For confidential consideration, please send a letter of introduction, resume, and list of publications to:

*The Procter & Gamble Company*  
R&PD Technical Recruiting, Dept. SG-3  
P.O. Box 398707 • Cincinnati, OH 45239-8707

*No agency referrals, please.*

An Equal Opportunity Employer

The Quaternary Sciences Center of the Desert Research Institute is seeking an Executive Director of internationally recognized distinction in the Quaternary Sciences with proven administrative and personnel management skills. The candidate must have 1) Ph.D., 2) a proven ability to obtain significant research grants and contracts in the field of Quaternary Studies, and 3) a record of noteworthy, peer-reviewed publications in national and international journals or forums. In addition, the candidate must have demonstrated 1) creativity in identification of research issues and an ability to pursue research avenues that enhance academic prestige, as well as financial standing, 2) an ability to manage and guide research programs to timely completion, 3) administrative and personnel management skills that maintain high morale, and 4) an aptitude for problem-solving. The Executive Director promotes the needs of the Quaternary Sciences Center and its personnel, and interacts with sponsors to further the strategic goals of the Quaternary Sciences Center and the Desert Research Institute. Salary is state-funded ranging from \$90,000 to \$110,000 (commensurate with applicant's qualifications). Position will be in either Reno or Las Vegas, NV. Review of applications begins 15 August 1994 and continues until position is filled. Submit a letter of interest describing how your qualifications meet the position requirements, a vita and list of five references to:

**Recruitment Office**  
Desert Research Institute  
University and Community  
College System of Nevada  
P.O. Box 19040  
Las Vegas, NV 89132-0040

The Desert Research Institute is an Affirmative Action/Equal Employment Opportunity Employer and employs only U.S. citizens and persons authorized to work in the U.S.

## University of California, San Francisco

### Department of Pharmacology

#### Two tenure track Assistant Professor Faculty Positions

Exceptional candidates at a higher level will also be considered. In seeking to build a modern molecular pharmacology department we are looking for scientists working in any aspect of: basic cell biology, signal transduction, structural biologists, and chemists interested in macromolecular interactions, protein-ligand interactions, drug design and novel therapeutic strategies.

The first appointment is envisioned to commence in the spring of 1995, and the second later that year. Expected is a Ph.D. and/or M.D. degree or equivalent and demonstrated achievement in their fields. The successful candidates will have outstanding potential for research and teaching, and will be expected to develop dynamic research programs. They will also be expected to participate in graduate and professional school teaching. It is anticipated that the new faculty will join the Program in Biological Sciences, which serves as a framework for graduate training and collegial interaction throughout the basic sciences at the University.

Applications for the first appointment must be received before September 1, 1994. Submit a C.V., a two page summary of research accomplishments, a two page description of future research plans and interests, copies of major publications, and arrange to have three to five letters of recommendation forwarded to: Chairman, Faculty Search Committee, Department of Pharmacology, University of CA, San Francisco, S.F., CA 94143-0450.

Our Department is eager to diversify its faculty and thus we especially encourage women and minorities to apply. U.C.S.F. is an Equal Opportunity and Affirmative Action Employer.

## RESEARCH OPPORTUNITIES



**Tularik**

Tularik is a rapidly growing biopharmaceutical company dedicated to the discovery and development of novel therapeutic products that regulate gene expression. We are actively seeking science professionals with the following capabilities:

### RESEARCH SCIENTIST

This Ph.D. scientist should bring a strong background in Biochemistry or Physical Biochemistry to play a key role in discovering lead compounds in a variety of therapeutic areas. As a member of the Biochemical Pharmacology group, the successful candidate will work closely with molecular biologists, chemists, and assay development scientists to execute and supervise robotic screening, develop biochemical assays and evaluate candidate inhibitors and activators. Experience in enzymology, knowledge and interest in studying protein/protein and protein/DNA interactions, combined with a strong commitment to high quality drug discovery are required. Applicants should have a strong computer background. Good interpersonal skills are necessary to function as part of a highly interactive team.

### RESEARCH ASSOCIATE

We are seeking a molecular biologist with expertise in cDNA cloning, vector construction, DNA sequencing, and mammalian cell expression systems. Candidates should have a BS/MS in Molecular Biology or related field and a minimum of 2 years' experience.

Tularik offers productive and experienced leadership, equity participation, competitive salary and benefits, and a very exciting research environment. For consideration, please submit your CV to: Tularik Inc., Dept. LSM, 270 East Grand Avenue, South San Francisco, CA 94080. Tularik is an equal opportunity employer.

## SURGICAL PATHOLOGIST

The Department of Pathology & Laboratory Medicine of the Brooklyn Department of Veterans Affairs Medical Center invites applications for the position of Surgical Pathologist with special interest in hemopathology and strong research background. The position entails a joint appointment as assistant professor of pathology at State University of New York Health Science Center at Brooklyn and is particularly suited for individuals completing a pathology residency or fellowship. The applicant must be board eligible/certified in anatomic pathology or anatomic pathology and clinical pathology.

The salary is highly competitive. Please submit CV and names of three references to:

**Dr. Matthew R. Pincus, MD, PhD**  
Chief Pathology & Laboratory Medicine (113)

## The Department of Veterans Affairs

800 Poly Place, Brooklyn, NY 11209

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## DEAN

### SCHOOL OF PUBLIC HEALTH UNIVERSITY OF MINNESOTA

The University of Minnesota invites nominations and applications for the position of Dean, School of Public Health. The School, established in 1944, has developed strong public health academic programs and is organized into the Divisions of Biostatistics, Environmental & Occupational Health, Epidemiology, Health Management & Policy, and the Institute for Health Services Research. The School of Public Health offers M.P.H. and M.H.A. degree programs; M.S. and Ph.D. programs are offered through the Graduate School.

The Dean is a member of the faculty and the chief executive officer of the School with the responsibility for leadership in planning and development, personnel administration, resource improvement and management, and in representing the School. The Dean is also a member of an eight-member Council advising the Provost.

An earned academic or professional doctorate is required. Candidates should have substantial administrative experience, a distinguished record of public health teaching, scholarly activity and documented commitment to service. Extensive experience in public health (a minimum of ten years) is preferred. Faculty rank, tenure, and salary are commensurate with qualifications and background.

Nominations and applications should be forwarded by September 30, 1994 to:

Dr. Sandra R. Edwardson, Chair  
School of Public Health Dean Search Committee  
University of Minnesota  
c/o Susan Jackson  
Box 293 UMHC  
420 Delaware Street S.E.  
Minneapolis, MN 55455-0392

*The University is an equal opportunity educator and employer*

NYU  
Medical  
Center

## Research Position

NYU Medical Center, one of the nation's leading research institutions, has a postdoctoral/ research assistant position available in the laboratory of Dr. J.A. Zadunaisky. Research includes the areas of epithelial physiology/cell biology, cell imaging, electrophysiology, cell volume regulation, intracellular Ca and other signals, and cell junctions. Projects cover the physiopathology of glaucoma and corneal epithelium function.

Experience is desired in tissue culture, cell transport, electrophysiology and quantitative microscopy. Duties include summer at Mount Desert Island Biological Lab in Maine.

We offer an excellent salary commensurate with experience. Send C.V. and names of two references to William Kelley, Human Resources Dept., NYU Medical Center, 550 First Avenue, New York, NY 10016. CVs must be received by July 18. EOE, M/F.

# IRRI

INTERNATIONAL RICE RESEARCH INSTITUTE

## Position Announcements

The International Rice Research Institute (IRRI), a member of the Consultative group on International Agricultural Research (CGIAR), is an international non-profit, donor-funded, agricultural research institute that conducts research and training at its headquarters in the Philippines and collaborates with national agricultural systems worldwide. IRRI's goal is to improve the well-being of present and future generations of rice farmers and consumers, particularly those with low incomes.

### Crop Protection Specialist

IRRI seeks a Crop Protection Specialist to be posted at Phnom Penh to work with the Cambodia-IRRI-Australia Project. The program includes germplasm preservation and evaluation, nutrient management, pest management training and research support. The Crop Protection Specialist will carry out research on farmers' pest management practices, pest ecology, crop losses and management tactics that will help improve rice pest management in Cambodia.

### Qualifications

Ph.D. in entomology or related field; at least 4 years experience in crop protection; ability to function in a multidisciplinary, multicultural environment; and preferably experience with rice and working in a developing country.

### Crop Ecologist/Crop Modeler

IRRI seeks a Crop Ecologist / Modeler to be posted at its headquarters in Los Banos, Laguna, Philippines, to work with teams of agronomists, physiologists, breeders, plant protection scientists, soil scientists, and social scientists in generating knowledge and improved technologies for rice ecosystems, as part of the IRRI Strategy and Five Year Workplan. The Crop Ecologist / Modeler is assigned to the Agronomy, Plant Physiology and Agroecology Division and participates in all of IRRI's Research Programs and International Services.

### Qualifications

Ph.D. or equivalent in crop physiology, ecophysiology, agronomy or a related discipline. A strong record of achievement in simulation modeling and the development, verification and application of models, as well as a solid understanding of crop physiology and research methods under field and greenhouse conditions. Experience in science leadership and research management. Fluency in English.

### Benefits

Salary and benefits are competitive with those of similar international organizations. The position offers an opportunity to interact with an international and highly motivated group of scientists, and to positively influence rice-related research in Asia and the world. IRRI provides a gender sensitive work environment, and particularly welcomes applications from women.

### Application procedure

For the Crop Protection Specialist, applications are due on or before 31 July 1994, or until a suitable candidate has been identified. For Crop Ecologist/Crop Modeler, first consideration will be given to applications received before 1 September 1994. Please send *curriculum vitae*, date of availability, and the particulars of three referees to:

Dr. Klaus Lampe, Director General, International Rice Research Institute, P.O. Box 933, 1099 Manila, Philippines. (FAX) (63-2) 818 2087. Telephone (63-2) 818-1926. Telex 40890 RICE PM or 22456 IRI PH.

# CLINICAL GENETICIST

## Advanced Technologies in Genetics

SmithKline Beecham, a worldwide leader in the pharmaceutical industry, has established within its Research and Development group a new unit, Advanced Technologies in Genetics (ATG), whose charter is to establish SmithKline Beecham at the forefront of genetic medicine. We currently have available an opportunity for a Clinical Geneticist.

Working as an integral part of the ATG Management Team, composed of scientists, project managers and legal support, the Clinical Geneticist will have worldwide responsibilities for providing a center of expertise in clinical genetic medicine to support the activities of Research and Development as both groups incorporate the rapidly emerging clinical aspects of genomic technologies into their core competencies.

The successful candidate will have an MD with postgraduate training in human genetics. Clinical research experience in human genetics including pedigree analysis and positional cloning is essential. Experience as part of a multidisciplinary team seeking novel human genes as contributors to disease strongly preferred.

Located in our state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits/relocation package. Qualified candidates should send resume with salary history to: SmithKline Beecham Pharmaceuticals, #M109, PO Box 679, Conshohocken, PA 19428. We are an Equal Opportunity Employer, M/F/D/V.



**SmithKline Beecham**  
Pharmaceuticals

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## CORRECTED COPY

### DIRECTOR LAWRENCE LIVERMORE NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA LIVERMORE, CALIFORNIA

The President and The Regents of the University of California invite nominations and applications for the position of Director of the Lawrence Livermore National Laboratory (LLNL) which is managed by the University of California for the U.S. Department of Energy (DOE). The appointment will be effective at such time as is mutually agreeable to the appointee and the University of California.

The Laboratory was established in 1952 and is located 40 miles southeast of San Francisco in Livermore, California. It is one of three multipurpose laboratories managed and operated by the University under contract with the DOE.

The largest program at LLNL is research designed to reduce the nuclear danger, with other programs in magnetically and inertially confined fusion, laser isotope separation, nuclear energy and fossil energy research, conservation and renewable energy, waste management and environmental restoration, and biological and biomedical sciences research. Extensive research in the disciplines is conducted in support of the programs, including experimental and theoretical physics, computational science, chemistry, materials science, and engineering. The Laboratory also performs the important function of fostering the rapid and effective transfer of unclassified research and technology to the private sector, in order to enhance the nation's economic competitiveness. Also, the Laboratory offers programs fostering science and engineering education, including encouraging students at various levels to pursue careers in mathematics and science.

The Director is responsible for the management of the Laboratory and reports to the President of the University. Within University policy, the Director exercises broad delegated powers in the overall administration of the Laboratory, which employs approximately 7,300 staff members and has an annual operating budget over \$982 million. The principal duty of the Director is the management of the Laboratory's programs. This includes defining their technical aspects, negotiating their size and content with federal officials in the executive branch, and executing them with the highest quality. In addition to this programmatic role, the Director is responsible for the institutional health of the Laboratory through stewardship of its human and physical resources. Candidates should have demonstrated administrative experience in the conduct of the affairs of substantial organizations and should have an extensive record of scientific and technical accomplishments.

Applications, accompanied by current resumes, and nominations may be addressed to:

The President  
Attn: LLNL Search  
300 Lakeside Drive  
University of California  
Oakland, California 94612-3550

and should be received no later than July 18, 1994, to be given full consideration.

AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER



**UNIVERSITY  
MEDICAL CENTER  
STONY BROOK**

STATE UNIVERSITY OF NEW YORK

**Dean of School of Medicine  
and  
Director of the  
Medical Center  
State University of  
New York at Stony Brook**

The State University of New York at Stony Brook invites nominations and applications for the position of Dean of the School of Medicine and Director of the Medical Center. Candidates should have an M.D. degree and a record of outstanding achievement in academic medicine and experience in the organization and strategic planning of health care delivery. The individual will lead the School of Medicine and its 540-bed hospital, which together constitute the University's Medical Center and which have a total budget of \$375 million. Responsibilities include direction of all aspects of the operation of the University's programs of medical education, research and patient care. The School's educational programs include 440 medical students, six Ph.D. programs, 400 residents, and students in several other health professions. Compensation and fringe benefits are competitive. A record of commitment to affirmative action and diversity is essential. All nominations, applications and inquiries should be sent to:

**Medical Dean and Director Search  
Committee  
P.O. Box 1534  
Stony Brook, NY 11790-0610**

**The University at Stony Brook is an  
affirmative action/equal opportunity  
educator and employer.**

52859NEIM

**Discover the Spirit of Innovation**

**Global Resources,**

Located at Lederle Laboratories, the Medical Research Division of American Cyanamid Company, we realize that a quality work environment is the foundation for innovation.

**Global Programs,**

Combining the resources of a global organization with the dedication of world class scientists, we have set new standards in the biotechnology industry.

**Global Results**

**Postdoctoral/Research Fellowship Oncology**

Our Department of Tumor Biology seeks a PhD in Cancer or Tumor Biology, experienced in developing state-of-the-art models used in studying tumor growth physiology, metastasis and angiogenesis. If selected, you will conduct independent research and contribute to our on-going cancer drug discovery program targeting oncogenes, signal transduction pathways, gene transcription and tumor angiogenesis. In vivo tumor biology experience is essential.

We offer a competitive salary and benefits package. Applicants should send their resume, along with salary requirements, to: Lederle Laboratories, Medical Research Division, Dept. 932, 401 Middletown Road, Pearl River, NY 10965. We are an equal opportunity employer.



*Discover the spirit of innovation.*

**Postdoctoral Associate/Research Associate/Senior  
Research Associate Position  
Forest Birds and Landscape Ecology**

The Natural Resources Research Institute at the University of Minnesota, Duluth has an opening for a Postdoctoral Associate/Research Associate/Senior Research Associate to work with two principal investigators on on-going projects to assess the landscape effects of management and land use change on the biological diversity of vertebrates (primarily birds and mammals).

**Minimum Qualifications:** **Postdoctoral Associate** - Ph.D., up to 2 years relevant post-Ph.D. research experience, and two relevant peer-reviewed publications in landscape ecology/conservation biology; **Research Associate** - Ph.D., more than 2 years relevant post-Ph.D. research experience, and two relevant peer-reviewed publications in landscape ecology/conservation biology; **Senior Research Associate** - Ph.D., more than 10 years relevant post-Ph.D. research experience, two relevant peer-reviewed publications in landscape ecology/conservation biology, and international distinction in research relevant to the position.

**Desired Qualifications:** **Postdoctoral Associate** - Ph.D., up to 2 years relevant post-Ph.D. research experience, and more than two relevant peer-reviewed publications in landscape ecology/conservation biology; **Research Associate** - Ph.D., more than 2 years relevant post-Ph.D. research experience, and more than two relevant peer-reviewed publications in landscape ecology/conservation biology; **Senior Research Associate** - Ph.D., more than 10 years relevant post-Ph.D. research experience, more than two relevant peer-reviewed publications in landscape ecology/conservation biology, and international distinction in research relevant to the position. Experience with forest birds and other vertebrates and knowledge of forest ecology and management. Expertise in Geographic Information Systems.

**Responsibilities:** Participates in an interdisciplinary research group. Coordinate and participate in field work, analyze data, co-author publications, and further develop an externally-funded research program. Participate in developing a landscape model of bird response to management and forest change. Appointment is for up to three years depending on starting date. Position available Fall 1994. To apply, send an application letter, resume, and the names and addresses of three references. Applications must be postmarked by July 31, 1994. Send applications to: Postdoctoral Associate/Research Associate/Senior Research Associate Search Committee, Natural Resources Research Institute, 5013 Miller Trunk Highway, Duluth, MN 55811.

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

## JPL/ NASA VISITING SENIOR SCIENTIST PROGRAM Office of Mission to Planet Earth

The Jet Propulsion Laboratory invites applications to the Visiting Senior Scientist Program to provide advice and assistance to management in the Office of Mission to Planet Earth at NASA Headquarters. The Visiting Senior Scientist would be fully involved in NASA's Global Change Programs, would work directly for the Associate Administrator and needs a strong background in international cooperative remote sensing programs.

Areas requiring immediate attention include 1) addressing the needs of the Global Energy and Water Cycle Experiment (GEWEX) and those elements of EOS and TRMM that are relevant to the GEWEX goals; 2) coordination of key U.S. agencies with the goals and activities of GEWEX, viz., NOAA, DOE, NSF and USGS with relation to the GEWEX Continental-Scale Project in the Mississippi Basin; 3) Space Observation and Data Information Systems relating to global climate change and GEWEX; 4) coordination of ocean, ice and land surface process studies with the aim of assessing the effect of increasing CO2 on regional and global-scale climate.

Candidates must hold a Ph.D. or have accumulated equivalent experience in areas of science, government, management and coordination of large national and international programs and should be familiar with both the U.S. and international science communities as well as with relevant U.S. and foreign government agencies responsible for assessing global climate change; a record of research publications in the refereed literature; be familiar with science funding mechanisms; and have strong verbal and written communication skills.

Tenured faculty members are preferred, but candidates from non-profit research-oriented organizations will be considered. Frequent travel and residence in Washington, DC is required. Starting date is January 1, 1995, or as soon as possible. Normal assignment in the Visiting Senior Program does not exceed two years.

Additional information regarding this position may be obtained from Janice R. Fyock, at the Office of Mission to Planet Earth, (202) 358-0799.

Please provide curriculum vitae, biography and the names and addresses of four references to:

Dr. Frederick H. Shair  
Jet Propulsion Laboratory  
4800 Oak Grove Drive  
Mail Stop 183-900  
Pasadena, CA 91109  
(818) 354-8251

An Equal Opportunity Employer M/F.

## Opportunities in Pharmaceutical Services

Due to unprecedented growth, Pharmakon Research International, a leader in the pharmaceutical/biotechnology services industry, announces several openings for career opportunities in our U.S. operation located in beautiful northeastern Pennsylvania.

We are seeking talented individuals with various levels of education and experience for positions from Technician to Study Director or Department Head in these fields:

**Toxicology**  
**Pharmacology**  
**Pharmacokinetics**  
**Sales/Client Services**  
**Computer Systems Management**

We offer a comprehensive benefit program, including a 401(k) savings plan, and an excellent living environment in prime vacation country.

For prompt and confidential consideration, please forward your resume in confidence to: **Z-96, P.O. Box 2069, Phila., PA 19103.** Equal Opportunity Employer.

# NRC-CMRC

*NRC is Canada's principal science and engineering R&D organization. We work with industry partners to improve Canada's competitiveness. Currently, NRC's **Plant Biotechnology Institute (PBI)**, located in Canada's foremost agricultural biotechnology centre, Saskatoon, requires a seasoned and high-energy manager for its dynamic and growing research programs.*

## Research Director (Genes and Gene Products)

One of the primary objectives of the Institute is to promote research and development and the technological transfer of R&D in a manner which will generate wealth for Canada's plant resource industry.

### Your Challenge

As Research Director, Genes and Gene Products, you will manage R&D groups comprising more than 40 NRC staff and over 30 personnel from other organizations. A member of the executive team, you will also co-develop the Institute's strategic and operational research plans. Moreover, you will generate new molecular tools for plant genetic engineering; manage programs characterizing new and useful genes; and pursue advanced gene regulatory technology.

### Your Credentials

You possess a Doctorate in Science and considerable research experience related to the duties of the position. Your experience includes either the conduct of or the evaluation of scientific research in life sciences. Recent experience in the management of a scientific research program, including evidence of successful team building, is essential. A security screening at the secret level is required as a condition of appointment.

Knowledge of English is required for this position.

The salary range for this position is \$68,598 to \$84,975 per annum. Relocation costs are negotiable.

Applications must be submitted by July 22, 1994, indicating the **reference number PB-94-06-5C**, to the **Manager, Recruitment and Staffing Group, National Research Council Canada, Ottawa, Ontario K1A 0R6.**

*NRC is an equal opportunity employer.*

*Vous pouvez obtenir ces renseignements en français.*



National Research Council Canada  
Conseil national de recherches Canada

Canada

## POSITIONS OPEN

**TWO POSTDOCTORAL POSITIONS** are available July 1, 1994, to study the molecular mechanisms of glucocorticoid receptor gene expression. One position requires experience in Western and Northern blotting techniques and nuclear run-on transcription assays. The second requires experience in recombinant DNA technology, promoter analysis, and reporter gene assays. Send curriculum vitae and the names, addresses and telephone numbers of three references to: Wayne V. Vedeckis, Ph.D., Department of Biochemistry and Molecular Biology, LSU Medical Center, 1901 Perdido Street, New Orleans, LA 70112; Telephone: (504) 568-8175, FAX: (504) 568-6997. *LSUMC is an Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL POSITION

Postdoctoral position in Biochemistry available immediately. Training and experience in Protein Chemistry essential. Send curriculum vitae to: Dr. O.P. Bahl, Department of Biological Sciences, State University of New York at Buffalo, 347 Cooke Hall, Amherst, NY 14260. *SUNY is an Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITION** (postgraduate researcher) available immediately to study gender and hormonal influences on vascular reactivity. Advanced degree in pharmacology or physiology and experience with *in vitro* techniques for studying smooth muscle are highly desirable. Send curriculum vitae and names of three references to: Dr. S. P. Duckles, Department of Pharmacology, College of Medicine, University of California, Irvine, CA 92715. *UCI: Rooted in Education, Enriched by Diversity.*

### POSTDOCTORAL POSITIONS IN MOLECULAR BIOLOGY/NEUROBIOLOGY

Projects related to the molecular biology of adenosine receptors and the circadian system. Emphases include structure-function, effector systems, receptor isolation and localization studies. Send curriculum vitae and names of references to: Dr. Scott Rivkees, Riley Hospital, Room 5984, Indiana University School of Medicine, 702 Barnhill Drive, Indianapolis, IN 46202. FAX: (317) 274-3882. *Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** at Thomas Jefferson University (Philadelphia) to conduct research on molecular biology of immunophilins, steroid receptors or programmed cell death. Traineeship position on an N.I.H. training grant for up to three years and requires citizenship or permanent residency. Stipend depends on years of postdoctoral experience. Send curriculum vitae and names of three references to: Dr. G. Litwack, Department of Pharmacology and Jefferson Cancer Institute, 233 South 10th Street, Philadelphia, PA 19107. *Thomas Jefferson University is an Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITION:** beginning on or before August 1, 1994. Research in a laboratory studying chromatin structure. Applicant must have experience in chromatin research, including preparation and characterization of histone variants, and techniques for the study of histone-DNA and matrix protein-DNA interactions. Some experience with immunological techniques is desirable. A Ph.D. or equivalent degree is required; additional appropriate training would be a positive factor. Salary will be \$22,000 per year, or higher if qualified. Please send two letters of recommendation to: K. E. van Holde, Department of Biochemistry/Biophysics, OSU, Corvallis, OR 97331-7305, by July 15, 1994. A personal interview is preferred, a telephone interview acceptable if necessary. *Oregon State University is an Affirmative Action/Equal Employment Opportunity Employer and is responsive to dual-career needs.*

### POSTDOCTORAL POSITION

Positions available immediately on projects studying (1) the molecular basis for HIV infection of monocyte-macrophage cells, and (2) HIV-macrophage-neural cell interactions, emphasizing viral strain differences. A strong background in molecular biology, including PCR technology, and/or retrovirus biology is preferred. Please submit letter, curriculum vitae and 3 references to: Dr. Ronald Collman, 209 Johnson Pavilion, University of Pennsylvania School of Medicine, Philadelphia, PA 19104-6076.

## POSITIONS OPEN

### POSTDOCTORAL POSITION

Available in the Departments of Ophthalmology and Pathology at Washington University School of Medicine in the laboratories of Drs. Jay Pepose and David Leib to study herpes simplex transcriptional events following reactivation from latency in an *in vivo* murine model, and to study genes critical to reactivation using recombinant herpes viruses and an *in vivo* selection system. Experience in cosmid cloning, PCR, *in situ* hybridization and molecular virologic or molecular biological techniques are required. To apply, send curriculum vitae and 3 letters of reference to: Jay S. Pepose, M.D., Ph.D., Department of Ophthalmology and Visual Sciences, Washington University School of Medicine, 660 South Euclid Avenue—Box 8096, St. Louis, MO 63110.

### POSTDOCTORAL POSITION

Department of Botany, College of Natural Sciences, duty location will be Department of Botany and Kewalo Marine Laboratory, full-time, federal funds, beginning approximately September 1994 for one year, pending funding, renewal dependent upon availability of funds. **Duties:** Marine ecology, algal-invertebrate interactions. Responsible for overseeing both laboratory and field experiments in Pearl Harbor to test antifouling coatings, implementing video-image analysis of settlement patterns, and pursuing personal research interests relative to tropical fouling communities. **Minimum Qualifications:** Ph.D. in biological sciences with an emphasis in marine ecology, appropriate related research experience in both laboratory and field studies with an emphasis on experimental design and analysis. Computer skills are expected. **Annual Stipend:** \$27,322 (minimum). Send application including résumé, reprints and three letters of recommendation to: Celia M. Smith, Department of Botany, University of Hawaii, 3190 Maile Way, Honolulu, HI 96822. Inquiries: 808-956-6947 direct; 808-956-3923 FAX; celia@uhunix.uhcc.hawaii.edu (E-mail). Closing Date: 29 July 1994.

### POSTDOCTORAL POSITIONS AT UC IRVINE, TO STUDY POTASSIUM CHANNEL STRUCTURE, FUNCTION AND REGULATION

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

1. Protein chemist, to pursue the biochemical characterization and purification of K<sup>+</sup> channels for direct structural studies.
2. Electrophysiologist, to work on reconstitution and characterization of the biophysical properties of purified K<sup>+</sup> channels.
3. Electrophysiologist, to use site-specific mutagenesis along with patch-clamp methodology to delineate the structure of channel pores.
4. Molecular biologist, with an interest in defining the regulatory elements that control K<sup>+</sup> channel expression.
5. Cell physiologist, to use video-imaging techniques to study cell signaling mechanisms.

Send curriculum vitae and the names of three potential referees to: Ms. Mona Wapner, Department of Physiology and Biophysics, D 340 Medical Sciences Building I, University of California, Irvine, CA 92717.

*UCI is an Equal Opportunity/Affirmative Action Employer and Educator.*

### POSTDOCTORAL ASSOCIATE

A postdoctoral position is available in the field of actin-myosin-based cell motility. Successful candidate will join a group lead by Dr. Yu-li Wang to study the assembly of actin structures, the dynamics of cell cortex, and the mechanism of cell movement and division in intact cells, using a combination of molecular biological, biochemical, biophysical and imaging techniques. Requires Ph.D. in a biological discipline and strong experience/interest in cell motility and signal transduction. Send curriculum vitae and at least two references to: Dr. Yu-li Wang, C/O Human Resources, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545. USA.

*Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### UNIVERSITY OF WASHINGTON DEPARTMENT OF BIOCHEMISTRY POSTDOCTORAL POSITION

Available September 1, 1994, in group investigating membrane biogenesis. Ongoing studies involve (i) the enzymology and function of a recently discovered pathway of phospholipid biosynthesis, and (ii) studies of the molecular biology of a recently purified arachidonoyl-specific diacylglycerol kinase.

Candidates with recent Ph.D.'s should send curriculum vitae, three letters of recommendation and summary of career goals to: Dr. John A. Glomset, Department of Biochemistry, SL-15, University of Washington, Seattle, WA 98195. *Equal Opportunity/Affirmative Action Employer.*

### MYASTHENIA GRAVIS FOUNDATION FELLOWSHIP

Postdoctoral Research Fellowship available for outstanding candidate with M.D., Ph.D., D.V.M. or equivalent degree, conducting research pertinent to myasthenia gravis (MG), in the laboratory of a qualified senior investigator; investigations concerned with mechanism of neuromuscular transmission; immunology, molecular or cell biology of the neuromuscular synapse; the etiology/pathogenesis, diagnosis or treatment of MG. Submit by November 1, 1994. Stipend competitive.

For specifics on submitting Fellowship, please write or call: The Myasthenia Gravis Foundation, 222 South Riverside Plaza, Suite 1450, Chicago, IL 60606; Telephone: 800/541-5454.

### POSTDOCTORAL FELLOW IN MOLECULAR TOXICOLOGY

The Department of Environmental and Occupational Health, Graduate School of Public Health, University of Pittsburgh, is seeking a **POSTDOCTORAL FELLOW** with experience in molecular biology and/or cell culture to study genetic changes in human cells and in humans. Our current research involves development and application of new technology to study the biochemical mechanisms of environmental carcinogens in human cells. The position is available immediately. Send curriculum vitae and names of references to: Dr. Phouthone Keohavong, Department of Environmental and Occupational Health, Room A146, 260 Kappa Drive, RIDC Park, Pittsburgh, PA 15238. *The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.*

**POSTDOCTORAL FELLOW POSITION** to study microvascular transport and hormonal regulation in the renal medulla. Techniques include microperfusion, videomicroscopy and fluorescent videoimaging. Send curriculum vitae to: Thomas L. Pallone, Division of Nephrology, Hershey Medical Center, Hershey, PA 17033. *The Pennsylvania State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

**POSTDOCTORAL OR RESEARCH ASSOCIATE POSITION** available immediately to study the regulation of endothelial cell function by specific growth factors. Ph.D. and experience in molecular biology or biochemistry are required. The position involves independent research as well as collaborations. Send curriculum vitae and names of three references to: Dr. Florence M. Hofman, Department of Pathology, University of Southern California Medical School, 2011 Zonal Avenue, Los Angeles, CA 90033.

### RESEARCH ASSOCIATE— POSTDOCTORAL POSITION Neuromuscular Research Group, University of Ottawa

Two-year position available immediately to study molecular, morphological and functional aspects of gene therapy for inherited muscle disorders. Background in motor physiology essential, preferably in evaluation of muscle contractile characteristics although EMG, kinesiology and single cell recording would also be appropriate. Salary up to \$40,000, commensurate with experience. Send letter of application, curriculum vitae and names and telephone numbers of two references to: Dr. Bernard JASMIN, Department of Physiology, Faculty of Medicine, University of Ottawa, 451 Smyth Road, Ottawa, CANADA K1H 8M5. (FAX: 613-787-6718.)

## SR. LICENSING ASSOCIATES

Technology Transfer Office

The University of California, San Diego (UCSD), a prestigious educational and research institution located in La Jolla, California, is seeking two Licensing Associates (biotechnology/biomedical and life sciences/chemistry) to elicit and evaluate invention and copyright disclosures. Will also interact with campus and industrial representatives seeking to license intellectual property, as well as patent attorneys prosecuting UCSD cases.

Requires an advanced degree in one or more of the life sciences, molecular biology or chemistry, or commensurate industrial/academic experience. A solid understanding of intellectual property laws, especially related to patents and licensing is essential. Skills to write various agreements, including options and licenses, as well as excellent interpersonal and oral/written communication skills required. Marketing experience related to intellectual property is highly desirable. Hiring salary range: \$50,000-\$60,000.

Send resume by 7/22/94, referencing either Job #105579-D, biotechnology/biomedicine or Job #105580-D, life science/chemistry, to: UCSD Human Resources, 9500 Gilman Drive, La Jolla, CA 92093-0967. AA/EOE.

**UCSD**  
University of California, San Diego

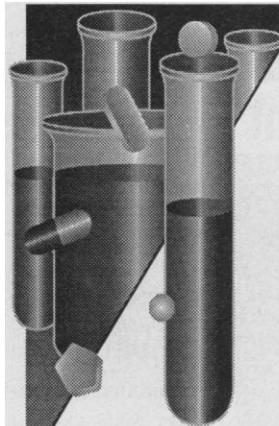
### University of Virginia School of Medicine Chairperson, Department of Biochemistry

The University of Virginia School of Medicine invites applications and nominations for chairperson of the Department of Biochemistry. The Department of Biochemistry is one of five basic science departments within the School of Medicine. It is particularly noted for its strengths in the areas of quantitative structural biology and membrane biophysics. The department has a well-established and strong graduate program, and participates in the education of medical students as well as in a combined M.D./Ph.D. program. The University of Virginia has an outstanding research reputation and is in the process of expanding each of the basic science departments in the School of Medicine. An exceptional recruitment package is available, including new tenure-track positions, and expanded departmental space in a new research building.

Candidates for this position should have a Ph.D. and/or M.D. degree, a distinguished record of scholarly activity, an internationally recognized research program, the ability to administer a comprehensive academic program, and proven leadership skills. Applications are encouraged from outstanding scientists in a wide range of disciplines, including biochemistry, biophysics, molecular biology, cell biology, structural biology, or molecular regulation of gene expression. The University of Virginia is noted for its strengths in the areas of signal transduction and protein structure, and we hope to attract an individual who will complement and/or enhance these two areas of strength.

Interested individuals should submit a letter of application, curriculum vitae, a research summary, and three references to Gary K. Owens, Ph.D., Chair, Search Committee, Dept. of Molecular Physiology and Biological Physics, University of Virginia School of Medicine, Box 449, Charlottesville, VA 22908.

The University of Virginia is an affirmative action/equal opportunity employer. Women and under-represented minorities are encouraged to apply.



## A DYNAMIC MISSION

*At the Glaxo Inc.  
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Our Priority Is  
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Glaxo Inc., one of the largest pharmaceutical companies in the world, has an established record of developing the highest quality prescription medicines for unmet patient needs. Located in Research Triangle Park, NC, the **Glaxo Inc. Research Institute** is a premier facility which provides a stimulating environment for scientists working in all aspects of discovery and development. We invite you to join us today in the following opening.

## RESEARCH INVESTIGATOR

As a key member of our **Protein Engineering Group**, the selected individual will be responsible for the study of protein structure function relationships. Individual will use skills in all areas of gene expression and site-directed mutagenesis to overexpress proteins and develop mutagenesis/engineering strategies in order to understand the functional roles of target proteins involved in signal transduction.

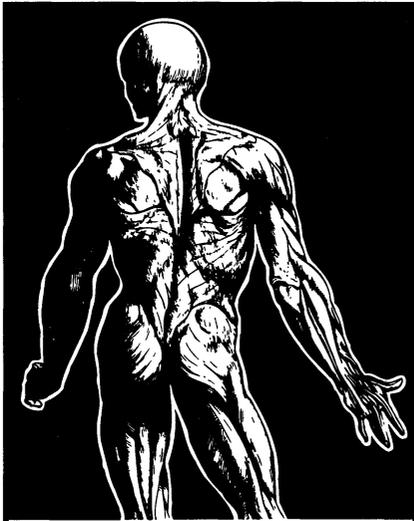
This position requires a Ph.D. in Molecular Biology/Biochemistry with a minimum of 1-2 years experience. Skills in all areas of gene expression and site-directed mutagenesis are required. Experience or working knowledge of yeast two hybrid systems and/or phage display expression systems is encouraged. Candidate must be able to work independently and with other scientists involved in protein/peptide chemistry, enzymology, and bioanalytical and structural chemistry. Excellent communication skills are required.

Glaxo offers an attractive compensation and benefits package that features a matching savings plan, an on-site fitness center and much more. Research Triangle Park, NC offers an academically enriched quality of life complete with a host of cultural and recreational advantages. For confidential consideration, send your resume which must include position title and salary history, to: **Human Resources Department, Job # ASC912705, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709.** (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/D/V.

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# SCIENCE and HUGO Present



## HUMAN GENOME

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### THE GENES AND BEYOND

### THE INTERNATIONAL CONFERENCE

**OCTOBER 2-5, 1994**

THE WASHINGTON RENAISSANCE HOTEL  
WASHINGTON, D.C.

## CONFERENCE AGENDA

### SUNDAY, OCTOBER 2

Welcoming Reception

### MONDAY, OCTOBER 3

#### Plenary Session I: Genome Analysis - The New Frontier

*"Human Gene Identification by Positional Cloning"*

Dr. Francis Collins, National Center for Human Genome Research

*"Genetic Basis of Human Colorectal Cancer"*

Dr. Bert Vogelstein, Johns Hopkins Oncology Center

*"Mapping Genes and Genomes: Genetic Dissection of Complex Traits"*

Dr. Eric Lander, Whitehead Institute/MIT

*"Human Genome Diversity"*

Dr. Mary Claire King, University of California, School of Public Health

*"Manipulating Cancer Genes in the Mouse"*

Dr. Harold Varmus, National Institutes of Health

*"Intellectual Property: DNA and its Offspring"*

Dr. Kate Murashige, Morrison & Foerster

*"Presymptomatic Diagnosis of Self and Progeny"*

Dr. C. Thomas Caskey, HUGO

#### Concurrent Sessions

**M1** *"New Methods of DNA-Based Diagnosis"*

Dr. Stephen P.A. Fodor, Affymetrix, Inc.

**M2** *"Human Gene Identification"*

Dr. Kay E. Davies, Institute of Molecular Medicine, University of Oxford

**M3** *"Social and Scientific Issues in Genetic Testing"*

Dr. Nancy Wexler, Hereditary Disease Foundation

**M4** *"Gene Therapy"*

Dr. Inder M. Verma, The Salk Institute

### TUESDAY, OCTOBER 4

#### Plenary Session II: Development and Signal Transduction

**Special Guest: Donna Shalala, U.S. Department of Health and Human Services**

*"MYOD & Myogenesis"*

Dr. Harold Weintraub, Fred Hutchinson Cancer Research Center

*"Genome Analysis in the Mouse"*

Dr. Shirley M. Tilghman, Princeton University

*"Pax: Genes for Mice and Men"*

Dr. Peter Gruss, Max Planck Institute of Biophysical Chemistry, Germany

*"From an Interferon Clone to the Regulation of Oncogenesis"*

Dr. Tadatsugu Taniguchi, Institute for Molecular and Cellular Biology, Osaka University

*"C. elegans Genome Project"*

Dr. Richard Wilson, Washington University Medical School

*"Small GTPases - Switching on Biological Responses"*

Dr. Alan Hall, MRC Laboratory for Molecular Cell Biology, U.K.

#### Concurrent Sessions

**T1** *"Gene Targeting"*

Dr. Elizabeth Robertson, Harvard University

**T2** *"Sequence to Function"*

Dr. Temple F. Smith, Biomolecular Engineering Research Center, Boston University

**T3** *"Education and the Human Genome Project"*

Dr. Paula Gregory, National Center for Human Genome Research, NIH

**T4** *"Chromatin Structure and the Regulation of Gene Expression"*

Dr. Gary Felsenfeld, Laboratory of Molecular Biology, NIH

### WEDNESDAY, OCTOBER 5

#### Plenary Session III: Mapping

*"Toward the Ultimate Generation of an Integrated Map of the Human Genome"*

Dr. Daniel Cohen, C.E.P.H., France

*"Application of High Resolution Genetic Maps to Studies of Common Disorders"*

Dr. Jeffrey C. Murray, University of Iowa

*"Yeast Genome Project"*

Dr. André Goffeau, Université Catholique de Louvain, Unité de Biochimie Physiologique

*"The Drosophila Genome Project - a Progress Report"*

Dr. Gerald M. Rubin, University of California

*"Status and Prospects for the Complete Human Genome Sequence"*

Dr. Richard A. Gibbs, Baylor College of Medicine

*"High Speed DNA Sequencing: Present and Future Technologies"*

Dr. Lloyd M. Smith, University of Wisconsin

*"Towards a Complete Set of Human Genes"*

Dr. J. Craig Venter, The Institute for Genomic Research

#### Plenary Session IV: Mapping and Applications

*"Vertically Integrated Mapping and Sequencing of Human DNA"*

Dr. Maynard Olson, University of Washington School of Medicine

*"Interpreting Genes and Genomes"*

Dr. David J. Lipman, NIH, National Library of Medicine

*"Some Applications of a Genome Library"*

Dr. Melvin Simon, California Institute of Technology

*"Huntington Disease"*

Dr. James F. Gusella, Massachusetts General Hospital

*"Ancient DNA"*

Dr. Svante Pääbo, Zoologisches Institut, Universität München

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**D**ue to new expansion at the Miles Research Center in West Haven, CT, Miles Inc., Pharmaceutical Division has the following career opportunity in Pharmacokinetics and Drug Metabolism.

## Senior Associate Research Scientist Bioanalytics/Metabolism

The successful candidate will develop and validate analytical/bioanalytical methods for the trace analysis of drugs and metabolites in biological samples from preclinical ADME studies, using modern analytical techniques under the supervision of a Senior Scientist. Demonstrated strong theoretical knowledge and practical experience with two or more of the following techniques is required: HPLC, GC, GC/MS, LC/MS. The candidate will participate in the introduction of new technology (LC/MS-MS) in support of pharmacokinetic and metabolism studies. Candidate will also develop and validate methods for and analyze samples from pharmacokinetic/toxicokinetic studies.

MS/BS in analytical/pharmaceutical chemistry or related discipline with 2 - 4 years' experience in the trace analysis of xenobiotics in biological matrices using HPLC, LC/MS, GC, GC/MS required. Candidates with previous experience with radionuclides, GLP, mass spectrometry and LIMS management are highly preferred. Demonstrated problem solving ability, independence and the ability to successfully introduce new technologies required.

This position offers attractive compensation commensurate with qualifications, generous benefits, and an excellent opportunity for personal growth and professional satisfaction. Resumes, including salary history, should be forwarded to:

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## INDUSTRIAL TOXICOLOGIST/ RISK ASSESSMENT

For more than 100 years, the people of Eli Lilly and Company have dedicated their efforts to the discovery and development of products that improve the quality of life.

Lilly Research Laboratories currently has a position available for an individual trained and experienced in toxicology or pharmacology and risk assessment for human health. Familiarity with industrial hygiene practices, and skills in statistical or mechanistic evaluation of risk from exposure to toxic materials are desirable. A M.S. degree and several years of related experience are required.

The successful candidate will write risk assessments and recommend acceptable exposure levels for chemicals that are used in industrial settings or that may enter the environment. This scientist may also coordinate studies that support this work. Considerable interaction will be required with others involved in assuring safety in the workplace.

Lilly provides an attractive salary and comprehensive benefits, as well as opportunities for continued professional growth through in-house seminars and off-site programs. Please send your resume to: Eli Lilly and Company, Corporate Recruitment, Dept. RSK, Lilly Corporate Center, Indianapolis, IN 46285.

We are an equal opportunity employer committed to diversity in the workplace.

# Research Associates

At Amgen, you'll discover a research environment that emphasizes collaboration, intellectual honesty, scientific integrity, and a supportive culture. This approach has helped us grow into a global biotechnology leader in just thirteen years.

The Inflammation Group currently has opportunities available at our Thousand Oaks, CA headquarters:

## MOLECULAR BIOLOGY

Molecular Biologist to study mechanisms of endothelial cell and monocyte activation. BS with 3+ years' experience or MS with PCR, Northern, Western and Southern blots, gel shift assays, and ELISAs. Experience with cDNA library construction, screening, and sequencing desirable. (Job Code: OA-SC-CW-001)

## CELLULAR BIOLOGY

Cellular Biologist to study mechanisms of endothelial cell and monocyte activation. BS with 3+ years' experience or MS with extensive experience in the isolation, culture, and functional analysis of human blood leukocytes and other primary cells. Some molecular experience is a plus. (Job Code: OA-SC-CM-001)

## BIOCHEMISTRY

Biochemist to develop cell activation assays for compound screening and drug discovery. Experience in cell-based assays, ELISAs, RIAs, or fluorescence assays required. (Job Code: OA-SC-RN-007)

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

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Discover a unique approach.

## DNA PROBE DIAGNOSTICS

Digene Diagnostics, Inc. is a rapidly growing company dedicated to the development and marketing of DNA probe-based diagnostics. As a result of recent scientific breakthroughs, Digene is expanding its research and development programs. We are seeking creative, energetic and motivated individuals who thrive in a fast-paced team environment to participate in our growth. We currently have the following opportunities.

### Senior Scientist - Human Genetics

Successful candidates will design and develop probe-based diagnostic products for the human genetics marketplace. Responsibilities include cloning and characterization of probes for targeted applications, optimization of assay performance characteristics and the transfer of new products into manufacturing. The position requires hands-on benchwork and creative, critical scientific abilities. Applicants must have a Ph.D. in biochemistry, molecular biology or microbiology with 2-4 years relevant industrial or academic experience.

### Mid-Level Scientist - Molecular Biology

Responsibilities include design of specimen processing methods, identification of new DNA probes and creation of new infectious disease assays. Applicants must have a Ph.D. or M.S. degree in Molecular Biology with 2 years experience in molecular virology or clinical microbiology.

### Manager - Technical Transfer

Responsibilities include technical and managerial support for the transfer of Digene's DNA probe products from R&D to manufacturing. Expertise in clinical immunoassay scale-up and production is required. Applicants must have a Ph.D. or M.S. in microbiology, molecular biology or immunology and 2-4 years of relevant industrial experience.

Please forward your resume to: Digene Diagnostics, Inc., Attn: Maurine Mazzeo, 2301-B Broadburch Drive, Silver Spring, MD 20904. An Equal Opportunity Employer.



The Harvard Medical School and the Dana-Farber Cancer Institute are searching for a Professor of Human Cancer Genetics (Medicine) who will lead a new Division of Human Cancer Genetics at the Dana-Farber. This Division will be charged with bringing outstanding human cancer genetic research to the Institute and with disseminating human genetic thinking and methodology throughout the Institute's clinical and basic investigation programs. The person selected for this post will be responsible for recruiting at least three junior and possibly one senior faculty member. Qualifications for this post are an M.D. and/or Ph.D. degree; a primary interest in human cancer genetics; a desire to forge strong scientific links with those in clinical and basic oncologic research; an outstanding and internationally recognized record of research accomplishments in cancer genetics; significant teaching and administrative experience in an academic institution. The search committee is especially interested in applications from women and minority candidates. Applicants should send a curriculum vitae to David M. Livingston, M.D.; Chairman, Human Cancer Genetics Search Committee; Dana Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. The Dana Farber Cancer Institute and the Harvard Medical School are equal opportunity employers.

## Special Advertising Section

# Announcing the 2nd Annual BS/MS Careers Issue August 26, 1994

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The SCIENCE recruitment advertising staff makes your advertising placement easy! Call Janis Crowley at (212) 496-7704, or fax (202) 682-0816 for more information. In Europe call (44) 0223 302067, or fax to (44) 0223 302068. Advertising Deadline 9 August 1994.

# SCIENCE

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



## Research Opportunities

Cedars-Sinai Medical Center, affiliated with UCLA School of Medicine, is pleased to announce the following opportunities:

### POSTDOCTORAL FELLOW

Position in Neurology will be involved in the molec-gen study of neurodegenerative disorders & the molec analysis of familial CNS tumors. Req. PhD or MD degree w/ background in molec bio & genetics. Exp. should include positional cloning. **JOB# 1940193.**

### RESEARCH ASSOCIATES

Positions in Medical Genetics will study molec bio of Down Syndrome, perform gene mapping & work on human genome project. Req. extensive molec bio exp., including independent experimental design, execution & administrative exp. in managing lab activities. Exp. must include cloning w/multiple vectors, Northern & Southern blotting, PCR, probe growth & preparation. Sr. Level position req Ph.D. w/3 yrs. molec bio exp. **JOB# 1920973.**

Please send full CV plus names & addresses of 2 references to: **Employee Relations, CEDARS-SINAI MEDICAL CENTER, JOB #, 8723 Alden Dr., SSB 610, Los Angeles, CA 90048. (AA/EOE)**

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At Ixsys, our unique approach to identify therapeutic drugs utilizes our proprietary technologies for the discovery and screening of monoclonal antibodies and peptides directed toward specific disease targets. In our small-team, high-impact atmosphere, the successes keep coming. If you're ready for a career with the same quality, join the team at Ixsys in one of the following positions.

## Director, Protein Engineering

Lead protein engineering group using hierarchical protein design technique to optimize antibodies. Evaluate new opportunities, work with corporate collaborators & antibody discovery group. Requires exp in protein engineering, especially antibody engineering, & bacterial expression of proteins. Code: DPE600.

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Direct development of cell culture & purification systems for pre-clinical & clinical programs. Requires min 5-10 years' exp in antibody production & purification, thorough GMP knowledge. Prefer assay development exp. Code: DPD600.

Director-level positions require PhD & successful track record managing research group of PhD- & RA-level scientists.

## Scientist, Integrin Biology

Play key role in developing novel therapeutics for cardiovascular disease & cancer. Requires PhD + 3-5 years' post-doc exp with integrins, protein purifications, ELISA assays & adhesion assays. Code: SIB600.

We also seek Scientists with min 2 years' post-doc exp in the areas of Safety Evaluation (Code: SE600), Purification (Code: P600), or Assay Development (Code: AD600).

We offer competitive salaries and a full range of benefits. For consideration, please send your resume to: Ixsys, Inc., Attn.: HR Dept., Code (see above), 3550 Dunhill St., San Diego, CA 92121. Principals only. EOE.



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Temple  
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School of Medicine

## Clinical Oncology Faculty Positions

The Fels Institute for Cancer Research and Molecular Biology at Temple University is recruiting Clinical Investigators for research programs in clinical oncology. These tenure track Faculty appointments would be in the Department of Internal Medicine at the Assistant, Associate or Professor levels commensurate with experience. These individuals will be responsible for conducting translational research in cooperation with the Fels Institute for Cancer Research and the Clinical Oncology Program at Temple. The candidates will receive ample start up funds and laboratory space for program development. The Fels Institute currently has active programs in cell biology and molecular genetics of malignant and non-malignant hematopoiesis and breast cancer. Individuals with interests in these areas would be particularly appropriate candidates. Curriculum vitae, a summary of research interests and the names of at least 3 references may be sent to: **Premkumar Reddy, Ph.D., Director, Fels Institute for Cancer Research and Molecular Biology, Temple University School of Medicine, 3307 N. Broad Street, Philadelphia, PA 19140.**

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

**P**

*ioneer Hi-Bred International, Inc., is a world leader in agricultural genetics. Founded in 1926, we are a publicly-held corporation with research, production and sales organizations on every crop-producing continent. Our dynamic RESEARCH AND PRODUCT DEVELOPMENT DIVISION is currently seeking motivated and experienced professionals to join us in our ongoing program of crop improvement.*

### POSTDOCTORAL POSITION (Job #1011)

Available starting 9/1/94 for an individual with interests in the area of plant transcription factor/DNA interaction. EDUCATION/EXPERIENCE: PhD or equivalent with demonstrated expertise in molecular biology or related field not necessarily in plant systems. Specific experience in nuclear protein preparation, protein/DNA interaction such as footprinting, mobility gel shifts, partial protein purification and PCR technology essential. Familiarity with various sequence analysis programs desirable. Ability to work independently with strong interpersonal, organizational and communication skills necessary.

### POSTDOCTORAL POSITION - MOLECULAR BIOLOGY (Job #1012)

Postdoctoral position available in the Trait and Technology Department to study mechanistic aspects of protein secretion in higher plant cells. The project requires a strong background in molecular biology and protein methodology. Experience in yeast molecular genetics would be advantageous.

We offer excellent compensation, benefits and career growth potential as well as excellent facilities and a highly cooperative research environment. Please send a cover letter indicating job number, TWO copies of resume, and names, addresses and phone numbers of three references to: **Gary Walljasper, Workforce Manager, Pioneer Hi-Bred International, Inc., 6800 Pioneer Parkway, P.O. Box 212, Johnston, IA 50131. Applications received by July 18, 1994 will be assured of consideration, however, applications will be considered until the positions are filled. We are an Equal Opportunity Employer.**



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**The Gladstone Institute of Cardiovascular Disease,  
University of California, San Francisco**

**Postdoctoral positions available in the labs of:**

**Israel F. Charo, M.D., Ph.D.:** Research on the role of monocyte/macrophages in early atherosclerosis. Current projects are focused on the recently cloned receptor for monocyte chemoattractant protein 1 (MCP-1) and related receptors in the rapidly emerging family of cytokines known as the chemokines. Methodology includes expression of receptors in *Xenopus* oocytes and mammalian cells to examine signaling pathways and ligand binding domains, as well as the development of transgenic mice. Experience in molecular biology, signal transduction, or transgenic mice is desirable.

**David A. Dichek, M.D.:** Research on genetic models and gene therapy approaches to vascular disease. Projects are focused on: 1) somatic transgenic models of vascular disease; 2) the adaptation of gene transfer techniques to the prevention and treatment of arterial pathology; 3) gene regulation in vascular cells *in vitro* and *in vivo*. Methodology includes animal models, retroviral and adenoviral vector-mediated gene transfer, histopathology, analysis of recombinant and endogenous gene expression. Experience with animal models of vascular disease and/or analysis of gene expression is desirable.

**Thomas L. Innerarity, Ph.D.:** Two positions: Study the molecular mechanism and physiology of apoB RNA editing. This would involve the characterization of the recently developed transgenic mice expressing apoB mRNA editing activity. The second position will use transgenic animals to investigate the genetic disorder familial defective apoB100 and the mutations of apoB100 that disrupt LDL binding to the LDL receptor.

**Robert E. Pitas, Ph.D.:** Study the molecular and cellular biology of novel lipoprotein receptors important in atherogenesis. Work will include cloning of receptors, their expression *in vitro*, and studies of receptor specificity. Transgenic models will be used to examine the importance of the receptors in normal physiology and atherogenesis.

**Stephen G. Young, M.D.:** Research on the structure and function of apolipoprotein B (apo B). Characterization of recently developed transgenic mice expressing large amounts of human apo B, generation of mice with targeted mutations in the apo B gene, and investigation of the molecular mechanism of hypobetalipoproteinemia. Experience with transgenic mice and/or molecular biology techniques is desirable.

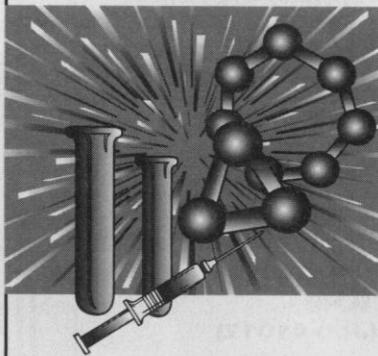
Candidates should possess an M.D. or Ph.D. in molecular biology or biochemistry. Competitive salary and benefits. Send C.V. and names of three references to: Postdoctoral Recruitment; Gladstone Institute of Cardiovascular Disease, UCSF; P.O. Box 419100; SF, CA 94141-9100. AA/EOE.

**Rowe Chair of Human Molecular Medicine and Genetics:** The University of California, Davis, School of Medicine announces the search for the Albert Holmes Powe Chair of Human Molecular Medicine and Genetics. The Rowe Chair will develop a basic research and teaching program in molecular medicine and genetics which can utilize mammalian, animal, human and/or cell culture models. The initiative will involve six tenure track positions funded by the School of Medicine and the Division of Biological Sciences which will strengthen the campus initiative in molecular and cellular biology. Incumbent will be expected to play a prominent leadership role in the recruitment of faculty who have demonstrated ability and achievement in investigator-initiated discovery research.

Successful candidates must possess an M.D. or Ph.D. degree and an outstanding record in high quality basic molecular biological discovery research.

Please forward the following: (1) letter describing research, teaching, and administrative background; (2) curriculum vitae; and (3) names and addresses of five references to Deans Gerald Lazarus and Mark McNamee c/o Office of the Dean, School of Medicine, 100 Medical Sciences I-C, East Health Sciences Drive, University of California, Davis, California 95616. This position will be "Open Until Filled". Applications should be received by October 1, 1994 for full consideration. The search committee will begin to review applications two months after publication of the position announcement.

## Drug Delivery



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National Jewish Center for Immunology and Respiratory Medicine, a recognized leader in the research and treatment of respiratory disease and immune disorders, is seeking a Director to manage the Biological Resources Center.

The successful candidate will have a Bachelor's in Animal Science or equivalent, with an advanced education or equivalent experience and specialization in animal science technology or veterinary medicine, minimum 5 to 7 years of experience in animal care management, and a demonstrated ability to maintain a specific pathogen free colony of mice as well as conventional laboratory animals.

Requires skills include: the ability to manage a staff of approximately 25 employees, the capacity to oversee health monitoring of animals, a good working knowledge of procedures and equipment and the capability to plan and implement a facility expansion. The candidate will be expected to interact with the research faculty, with a consulting veterinarian (unless the candidate possesses a veterinary degree) and to participate as a member of the Institutional Animal Care and Use Committee. The position will report to the Executive Vice President of Academic Affairs.

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To apply, submit your resume to:

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Respiratory Medicine  
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FAX: 303-398-1776

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## Temple University School of Medicine

### ASSOCIATE DIRECTOR

The Fels Institute for Cancer Research and Molecular Biology at Temple University School of Medicine is recruiting an Associate Director for the Fels Institute to direct a program in clinical oncology. The level of tenure track academic appointment will be commensurate with experience and will be in the Department of Internal Medicine. This individual should be an experienced clinical investigator funded or fundable by the R01 or P01 grant mechanisms. The individual will be responsible for developing a program in translational research at Temple University in cooperation with the Fels Institute for Cancer Research and Molecular Biology and the Clinical Oncology Program. The successful candidate would receive a recruitment package including up to 4 new faculty positions, ample start up funds and laboratory space for program development. The Fels Institute currently has active programs in cell biology and molecular genetics of malignant and non-malignant hematopoiesis and breast cancer. Individuals with interests in these areas would be particularly appropriate candidates. Curriculum vitae, a summary of research interests and the names of at least 3 references may be sent to: **Premkumar Reddy, Ph.D., Director, Fels Institute for Cancer Research and Molecular Biology, Temple University School of Medicine, 3307 N. Broad Street, Philadelphia, PA 19140.**

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

### SAM HOUSTON STATE UNIVERSITY STEPHEN F. AUSTIN STATE UNIVERSITY DIRECTOR, TEXAS REGIONAL INSTITUTE FOR ENVIRONMENTAL STUDIES

Sam Houston State University (SHSU) in collaboration with Stephen F. Austin State University (SFASU) is seeking a director for the Texas Regional Institute for Environmental Studies (TRIES), headquartered at SHSU. TRIES has been established to conduct comprehensive examinations of environmental issues. Organization of TRIES is designed to incorporate and benefit from a diversity of disciplines involved in potential solutions to environmental problems. The successful applicant will have the unique opportunity to guide the formation of a novel and potentially revolutionary approach to examination of environmental issues. The Director will chair the TRIES Board of Advisors, work closely with campus directors at each university, and provide overall guidance for the development of this unique institute. The Director will report to the Associate Vice President for Research and Sponsored Programs at SHSU. Sam Houston State University and Stephen F. Austin State University have combined enrollments of over 25,000 students with 900 plus faculty. SHSU has 96 undergraduate, 76 graduate programs and one doctoral program in Criminal Justice. Faculty and students enjoy the advantages of picturesque Huntsville (rated as one of the best small cities in America) and close proximity to the Houston metroplex, 60 miles south of campus. Stephen F. Austin State University is located in historic Nacogdoches (the oldest city in Texas) about 130 miles to the northeast of Houston. SFASU offers 75 undergraduate and 33 graduate degree programs including one doctoral program in Forestry. Qualifications: Ph.D. is preferred, with sufficient academic qualifications for appointment to an appropriate academic unit. Must have excellent leadership and management qualities, fund raising skills, interpersonal skills, a record of funded research, extensive experience working with state and federal agencies, an understanding of interdisciplinary approaches to environmental studies, and the ability to represent TRIES to external and internal constituencies. Salary: Competitive; commensurate with experience and educational background. Application and Appointment Process: Review of applications will begin immediately and continue until the position is filled. Starting date is negotiable. Continuation of the position is contingent upon availability of funds. Currently, funding is available for three years. Application Process: Letter of application, current resume, official transcripts, a brief statement of management philosophy, and addresses and telephone numbers of at least five references should be sent to: Dr. Billy C. Covington, Chair of Search Committee, P.O. Box 2448, Sam Houston State University, Huntsville, Texas 77341. 409-294-3621 (3622 FAX). Sam Houston State University and Stephen F. Austin State University are Equal Opportunity, Affirmative Action Employers. Sam Houston State University is a member of the Texas State University System.

### Vice President for Finance & Administration Reno, Nevada

The Desert Research Institute seeks a Vice President for Finance and Administration (VPFA). DRI is a non-profit environmental research institute within the University and Community College System of Nevada and has an annual budget exceeding \$25M. Faculty-generated grants and contracts account for 90% of this budget. DRI has a faculty and staff of approximately 400, and maintains research facilities in both the Reno and Las Vegas areas; reports to the DRI President and serves as chief financial and administrative officer for the Institute; manages the day-to-day activities of the Institute and acts on the President's behalf in his absence; assists the President in securing and managing ambitious growth objectives; has overall responsibility for budgetary and fiscal management, facilities management and planning, human resources administration, research support, development of the Dandini Research Park, external institutional resource development, public relations and external affairs; and must be able to interact effectively with faculty, administration, regents and legislators to facilitate the continued successful development of the Institute.

#### EDUCATION/MINIMUM QUALIFICATIONS:

- Bachelor's degree required.
- Prefer advanced degree in management, accounting business or related field.
- Advanced degree in science or engineering desirable.
- Seven years demonstrated effective leadership and administrative accomplishment in progressively responsible senior positions.
- Experience in financial management, facilities management, human resources, and in establishing policies and controls for computer-based information systems.

**SPECIAL NOTE:** Selected applicant must meet eligibility requirements for obtaining a security clearance.

**WORKING CONDITIONS:** Requires frequent travel and the flexibility to work occasional long and irregular hours.

**SALARY:** Senior-level administrator; salary commensurate with education and experience. The Desert Research Institute offers an excellent benefits package.

**SUBMISSION DEADLINE:** Review of applications begins September 6, 1994 and continues until position is filled. Submit resume, a one-page letter describing how your qualifications meet the position requirements and three letters of reference specific to this particular position. Applicants not meeting these requirements will not be considered.

SEND TO:

Recruitment Office  
Desert Research Institute  
University & Community College System of Nevada  
P.O. Box 19340  
Las Vegas, NV 89132-0040

**POSITION IS LOCATED IN RENO, NEVADA**

The Desert Research Institute is an Affirmative Action/Equal Opportunity Employer.

### Clinical Laboratory Directors Wadsworth Center New York State Department of Health Albany, New York

The Wadsworth Center is seeking three highly qualified individuals to direct clinical laboratories in the following areas:

- Bacteriology
- Diagnostic Immunology
- Mycology

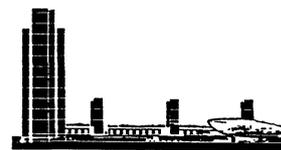
Candidates must have a Ph.D. or M.D. and strong backgrounds in their respective disciplines. Duties will include direction of diagnostic and reference laboratory units and responsibility for the statewide Proficiency Testing Program in their respective areas. Pursuit of research programs is encouraged with significant opportunities available for collaborations. Candidates should have a minimum of four years of postdoctoral experience in a clinical laboratory in their field. Salary will be commensurate with training and experience.

These laboratories are located primarily in the new, well equipped Axelrod Institute Building. Centralized core facilities in biochemistry, immunology, molecular genetics and information resources provide state-of-the-art equipment and laboratory support services. Participation in the Ph.D. program of the School of Public Health of the State University of New York, which is housed within the Wadsworth Center, provides opportunity for academic interaction and involvement in graduate education.

The Albany area is an attractive setting with numerous cultural and recreational opportunities. Albany has beautiful natural surroundings and the major metropolitan areas of the Northeast are within easy reach.

Applicants should submit a Curriculum Vitae, names and addresses of three references, and a brief description of their laboratory experience to:

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Dr. M. Shayegani  
Search Committee Chair  
Wadsworth Center  
David Axelrod Institute  
New York State Department of Health  
P.O. Box 22002  
Albany, New York 12201-2002

## POSITIONS OPEN

**POSTDOCTORAL RESEARCH POSITION IN CLINICAL AND EXPERIMENTAL TOXICOLOGY:** Two-year opportunity to study drug metabolism and toxicity in rodent models and man. This position offers experience with chromatography, mass spectrometry, enzymology, pharmacokinetics and pharmacodynamics with emphasis in drugs of abuse. This research facility is affiliated with an IOC- and CAP-accredited drug screening, clinical toxicology and TDM laboratories. A Ph.D. in biochemistry, toxicology or pharmacology is required. Previous experience with drug metabolism and toxicity, analytical chemistry and cell culture is preferred. Send curriculum vitae, a brief summary of research interests and experience, and names, addresses, and telephone numbers of three references to: **Dr. R. A. Dean, Department of Pathology and Laboratory Medicine, Indiana University School of Medicine, 550 North University Boulevard, Room 4430, Indianapolis, IN 46202-5283. Indiana University is an Equal Opportunity/Affirmative Action Employer.**

**ONCOLOGY—RESEARCH ASSOCIATE—** Winthrop-University Hospital, a 591-bed major affiliate of SUNY Stony Brook School of Medicine, seeks an Oncology Research Associate to study the molecular basis of oncogenic transformation. A Master's degree in molecular biology or a related field is required. Experience with Northern, Western, and Southern blots, PCR, cDNA library screening and computer literacy is desired. For immediate consideration, please forward résumé to: **Employment Specialist, Winthrop-University Hospital, 259 First Street, Mineola, NY 11501. An Equal Opportunity Employer, M/F/D/V.**

**RESEARCH ASSOCIATE** position available immediately in the Institute for Human Gene Therapy at the University of Pennsylvania to develop new and improved adenovirus vectors. A Ph.D. in molecular biology or virology with a minimum of three years of postdoctoral experience required. The ideal candidate will have a strong background in virology along with experience in adenovirus, AAV, and their use as gene transfer vectors in *in vitro* and *in vivo* models. Research Associate appointments are made on an annual basis for a maximum of 3 years. Send curriculum vitae, letter of interest and names of 3 references to: **James Wilson, M.D., Ph.D., Director, IHGT, 3400 Spruce Street (601 Maloney), Philadelphia, PA 19104-4283. An Equal Opportunity/Affirmative Action Employer. We encourage minority and women applicants.**

**ASSISTANT OR ASSOCIATE COOPERATIVE EXTENSION SPECIALIST. Ph.D. required, experience in APPLIED ECOLOGY/RESOURCE MANAGEMENT,** at landscape or ecosystem scale. Member of six-person team of specialists in hardwood/rangeland conservation program. Responsible for research and outreach in woodland conservation, working with diverse audiences. Position housed at Hopland Field Street, southern Mendocino County, regional assignment in Northern Coast of California, academic membership in UC Berkeley Department of Environmental Science, Policy, and Management. Complete position announcement and application instructions available from: **Natural Resource Specialist Search Committee Chair, 160 Mulford Hall, University of California, Berkeley, CA 94720; Telephone: 510-643-5429. Closing date September 15, 1994.**

### MICROBIOLOGIST IV FOR A CYTOGENETICS LAB

Performs microbiological cytogenetics. Capable of solving technical problems. Responsible for emergency blood cases involving harvesting, banding, visual karyotyping and computer assisted karyotyping. Bachelor's degree from an accredited college or university in one of the biological, biomedical or medical sciences plus 3 years of experience performing diagnostic procedures in clinical cytogenetics. Prefer: Experience in cytogenetic staining, analyzing and photography. Ability to analyze chromosomal abnormalities and check for accuracy of karyotypes. Experience performing tissue culture, blood, bone marrow, amniotic fluid analysis, and computer assisted karyotyping. Eligible or certified as a Cytogenetic Technologist. State of Texas benefits, Salary: \$30,588 per year. No résumés. For application call: **Texas Department of Health/Genetic Screening and Counseling Service, Human Resources in Denton at 817-383-3561.**

## POSITIONS OPEN

**RESEARCH INSTRUCTOR** (grant-supported) re: inflammatory cytokines/prostaglandin in uveitis. Requirements: Ph.D. in cellular endocrinology/physiology and four years of postdoctoral training. Significant experience required in immune system modulators (cytokines, prostaglandin), animal research (non-human primates and rodents), surgical procedures (chest/abdomen), administration of anesthesia, IV and IP administration of drugs and retrieval of fluid and tissues. Evidence of research success by four publications with primary authorship in at least two peer-reviewed scientific articles. Candidate should have at least three years of experience in the following techniques: preparation of tissue homogenate and extraction, cell fractionation, enzyme analysis, use of chromatographical techniques for separation of steroids/proteins and radioimmunoassay of prostaglandin/cytokines. Isolation/culture of primary cells and isolation/pharmacological manipulation of micro and macro vessels. Molecular biology techniques including RNA extraction, gene cloning, PCR, *in situ* hybridization and sequencing. At least two years of teaching/supervising experience to technicians and students. Experience with the use of WP, spreadsheet and graphics programs necessary. Salary commensurate with experience. Position will remain open for 30 days following publication of advertisement. *Affirmative Action/Equal Opportunity Employer.* Send curriculum vitae and three references to: **Dr. J. T. Rosenbaum, Professor, Department of Ophthalmology, CEI, Oregon Health Sciences University, 3375 SW Terwilliger Boulevard, Portland, OR 97201.**

## ANNOUNCEMENTS

### CALL FOR NOMINATIONS

The Minnesota Public Utilities Commission is seeking candidates for a team of scientists investigating impacts to dairy herds from electric currents in the earth. Expertise is needed in electrical engineering, epidemiology, soil science, physics, dairy science, animal physiology, veterinary medicine. Nominations are due July 8, 1994. For further information call **612-297-7956** or FAX @ **612-297-7073.** Send names and a short description of qualifications to: **Mike Michaud, 121 7th Place, Suite 350, St Paul, MN 55101.**

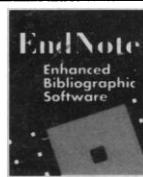
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