Working in Regulatory Affairs Is a Way to Get the Broad View

"Early in my career I was told that it was important to obtain a broad view of the pharmaceutical industry," says Kelly Freeman. The motivation behind the advice was that having the broad view promotes more effective communication between the divisions in a large pharmaceutical company. Freeman's response to the advice was to seek a position in an area of the pharmaceutical industry that's often overlooked by outsiders: regulatory affairs.

Freeman, who came to Eli Lilly in 1988 with a newly minted Ph.D. in analytical chemistry from the University of Oklahoma, says, "I was involved in developing methods for clinical trials and heard they were looking for someone in the regulatory group. I thought that working in regulatory would help me obtain that broader view."

And indeed it has. In her role as a regulatory affairs specialist at Lilly, Freeman interacts with a wide variety of people, from the company's marketing group to folks at the Food and Drug Administration (FDA) to patients receiving Lilly products. As a regulatory affairs specialist, her responsibility is to see that a new drug application moves smoothly through the long, complex FDA approval process.

Freeman is one of a growing number of scientists who are finding their way out of the lab into the world of regulatory affairs. Regulatory affairs professionals work at many different levels, from the entry level to top management, in private industry and in agencies such as FDA, the U.S. Department of Agriculture, and the Environmental Protection Agency. Some of them, like Freeman, are responsible for shepherding a new drug application through the approval process; others make sure companies comply with federal regulations regarding laboratory and manufacturing practices; still others are responsible for making sure that products are safe before they go on the market.

Although their responsibilities can vary widely, almost all the regulatory affairs specialists interviewed by Science agree that scientific training is a big help in their work. Lionel Bourdrel, who has a B.S. in biology from the University of Southern California and works in the regulatory affairs division at Amgen, says that his "broad background in molecular biology, protein chemistry, process development, and toxicology" helps him "understand the rationale that the FDA uses to evaluate the science."

On the other side of the fence, at the FDA, drug reviewer Shannon Williams agrees: "The experience you gain in experimental design is invaluable, because it allows you to critically evaluate the science in a new drug application."

Although a strong science background is an asset in regulatory affairs, not all scientists are necessarily cut out for this kind of work. Regulatory affairs, say those involved in it, is a people-intensive trade, and people skills are critical. Larry Davenport, a manager of regulatory affairs at Genentech, says that those in regulatory affairs must be able to work well with people scattered throughout their company, as well as with people in government agencies. In fact, says Davenport, "formal training in dealing with people"—something not many scientists get—"would be helpful for young scientists contemplating entering the field."

The reasons researchers make the transition to regulatory affairs vary widely. Many cite the breadth of experience that drew Freeman to the field. But others, including Christine Czarniecki, are simply looking for a new challenge. Czarniecki started her research career in biotech in 1981 following a postdoc at NIH. Her initial move to industry was connected to her research aspirations. "My colleagues and I were very committed to our interferon research," she says. "At the time interferon was very hard to get. I had this idea that if I could find a source, then I could do all these wonderful experiments."

Czarniecki joined the research team at Genentech and worked on interferons there for 9 years. In 1988, when she was promoted to the level of senior scientist, she began to think about new goals. The stimulus for this kind of thinking was not just intellectual curiosity—it was also a strategic career move. "I'm always looking for ways to broaden myself and become more marketable," she says.

Czarniecki tried project management and business development before settling on regulatory affairs. She says that regulatory affairs was attractive because it requires a "very science-based technical background." In addition, she liked the fact that "there was a lot to learn." Czarniecki's sense that broadening herself would advance her career was correct: In 1993 she was hired by the Seattle-area biotech firm ICOS as director of regulatory affairs, with the challenge of building their regulatory affairs department.

Other scientists find that the move into regulatory affairs may enable them to break through a glass ceiling. One ceiling-smasher is Craig Mintz. Mintz has a Ph.D. in health sciences from Columbia Pacific University and works in Research Triangle Park as a director in the regulatory affairs division of Glaxo Wellcome. Three years ago he made the transition from clinical research to regulatory affairs because he isn't a physician and "for a non-M.D. continued career progression may be difficult in clinical research."

The capacity of regulatory affairs to break through a glass ceiling, its capacity to provide career growth, and the pleasure it gives many of its practitioners all seem to be connected to two factors. The first is that it is closely connected to the industry's scientific base, from basic research right through to product approval. The second is the quality that drew Kelly Freeman in the first place: the broad view.

As George Fuller, a regulatory affairs director at Monsanto, puts it, "I like working in regulatory because it gives you a big picture of the company. And, with career development an ever more crucial issue, the big picture may be one that more and more young scientists are interested in viewing."

-Nicole Ruediger

Nicole Ruediger is a young biologist living in Florida. Like many of her peers, she is considering a variety of career options.

For more information on making the transition to a career in regulatory affairs, please go to Science's Next Wave, on the World Wide Web at <http://sci.aaas.org/nextwave>, and look under the "New Niches" heading on the home page. There you will find the stories of the "Role Models" who have already made this transition, along with "Resources" that will help you make it yourself.
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The Applied Animal Biotechnology Laboratory, Department of Poultry Science, Louisiana State University (LSU), Baton Rouge, Louisiana, is accepting applications for an ASSISTANT PROFESSOR position. Applicants must have a Ph.D. in molecular biology/microbiology or closely related discipline. Required experience includes cloning, site directed mutagenesis, fusion protein expression systems, DNA sequencing, and gene mapping; protein chemistry experience is desired but not essential for acceptance. The successful candidate will join an active multidisciplinary research team currently engaged in the examination of endocrine mechanisms that stimulate ovulation in poultry. Successful candidates are expected to contribute to the continued development of biotechnology applications to the poultry industry. Salary commensurate with training and experience. Benefits include University holidays, extended health and life insurance, and paid sick leave. Louisiana State University is an equal opportunity employer.

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The Department of Microbiology, The University of Iowa College of Medicine, invites applicants for a tenure-track FACULTY POSITION at the Assistant/Associate Professor level. Outstanding candidates investigating the interaction between human viruses, such as HIV, and the immune system are encouraged to apply. Applicants must have a Ph.D. or M.D./Ph.D. degree, postdoctoral research experience, and a strong record of research accomplishments. Successful applicants are expected to establish an extramurally funded research program. Participation in the Department’s teaching programs is also expected. The Department of Microbiology consists of 28 faculty members with research programs in immunology, virology, pathogenic bacteriology, microbial genetics, and microbial physiology. The University has strong research programs in molecular virology and molecular microbiology. The Department is under the leadership of a new head and the research facilities of the department have undergone complete renovation. Applicants should send their curriculum vitae and the names of at least three references to: Chair, Search Committee, Department of Biotechnology, Rochester Institute of Technology, P.O. Box 220, Rochester, NY 14623. An Equal Opportunity/Affirmative Action Employer.

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The Applied Animal Biotechnology Laboratory, Department of Poultry Science, Louisiana State University (LSU), Baton Rouge, Louisiana, is accepting applications for an ASSISTANT PROFESSOR position. Applicants must have a Ph.D. in molecular biology/microbiology or closely related discipline. Required experience includes cloning, site directed mutagenesis, fusion protein expression systems, DNA sequencing, and gene mapping; protein chemistry experience is desired but not essential for acceptance. The successful candidate will join an active multidisciplinary research team currently engaged in the examination of endocrine mechanisms that stimulate ovulation in poultry. Salary commensurate with training and experience. Benefits include University holidays, extended health and life insurance, and paid sick leave. Louisiana State University is an equal opportunity employer.
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Laboratory Director Search, Salvatore V. Pizzo, M.D., Ph.D., Professor and Chairman, Department of Pathology, PO Box 3712, Duke University Medical Center & Health System, Durham, NC 27710.

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Ecosystem-Based Natural Resource Management: AS- SISTANT/ASSOCIATE PROFESSOR

The Department of Natural Resources and Environmental Sciences, University of Illinois at Urbana-Champaign, Position: Full-time, tenure-track, 60% research, 40% teaching and out- reach. Ph.D. in any area related to natural resource management, with a Ph.D. in the field of study preferred. The Department of Natural Resources and Environmental Sciences is an interdisciplinary unit with joint appointments in the College of Forestry and Natural Resources, College of Agricultural, Consumer, and Environmental Sciences, and College of Environmental and Civil Engineering. The candidate is expected to have strong background in natural resource management and to develop gene-knock-out models. The candidate for the other position should have a strong background in molecular biology, protein chemistry, and cell biology. The position is available immediately, beginning August 1, 1996. For full consideration submit curriculum vitae with names of three references by May 30, 1996 to: Barbara Frese, Department of Pharmacology (M/C 868), 835 South Wright Street, Rm E633 MSB, Chica- go, IL 60612-7343. UIC is an Affirmative Action/Equal Opportunity Employer.

GRiffith University, Australia

School of Applied Science
Gold Coast Campus

PLANT BIOLOGY

USDA/ARS Children’s Nutrition Research Center
Baylor College of Medicine

Biomedical Engineer

For application and appointment procedures, please contact: Avery L. heating, 713-798-7022.

E-mail: phil@bcm.tmc.edu

Equal Employment Opportunity

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Tumor Postdoctoral Fellowship Positions

Immediate opening for two full-time Postdoctoral Fellowships in the Tumor Immunology Section, Surgery Branch, National Cancer Institute, National Institutes of Health, Bethesda, Maryland, to study the immune response to tumor cells in murine models and in humans.

We seek candidates with experience in molecular biology for one position, and someone with experience in cellular immunology for the second position. Ongoing projects include the study of breaking immune tolerance to tumor-associated differentiation antigens and the development of synthetic and recombinant anti-cancer vaccines.

Selections for these positions will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation, or membership or non-membership in an employee organization. The NIH is an Equal Opportunity/Affirmative Action Employer.

Send cover letter, CV, and statement of research interests to: Steven A. Rosenberg, M.D., Ph.D., Chief of Surgery, National Cancer Institute, Building 20, Room 2B42, Bethesda, Maryland 20892-1502, (301) 496-4164.

Director
Office of Grants and Research Administration

The Long Island College Hospital, a premier, not-for-profit medical center located in the Brooklyn Heights Section of Brooklyn, New York, is a major teaching affiliate of the State University of New York Health Sciences Center at Brooklyn. The Institution has a full-time faculty of more than fifty physicians and scientists engaged in basic and clinical research.

Applications are invited for the newly created position of Director of Grants and Research Administration. The successful applicant will be responsible for the overall development and coordination of research activities at the Long Island College Hospital. We are seeking a scientist with proven research achievement or who will help to provide leadership for the development of multidisciplinary, inter-institutional research programs attractive to funding opportunities from both the private and public sectors. The successful candidate should have an MD, or Ph.D., administrative and leadership ability, experience in working in an interdisciplinary setting, and familiarity with regulations concerning welfare of human subjects (Institution Review Board) and welfare of animals used in research (IACUC).

The Long Island College Hospital offers an attractive compensation and benefits package. For confidential consideration please fax a cover letter and names of three references to: David Goddard, MD, The Long Island College Hospital, FAX (718) 780-2983. Equal opportunity employer M/F/D/V.

Faculty Position
Albert Einstein College of Medicine
X-Ray Crystallography

The Department of Biochemistry at the Albert Einstein College of Medicine is seeking a faculty member with experience in solving biochemical problems by X-ray crystallography. Faculty rank in this tenure-track position will be determined by prior experience. The X-ray crystallography laboratory is well-equipped with area detectors and molecular graphics equipment. A synchrotron resource facility at Brookhaven National Laboratory is operated by the College. Numerous collaborative projects are available within the College. Applicants should send a curriculum vitae, letters from three or more references, and a summary of research interests and future research plans to: Search Committee, Department of Biochemistry, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. Applications will be reviewed beginning July 1, 1996. EOE.
Looking for Talent in Bioinformatics?


NEW! Bioinformatics Banner Highlights Your Organization's Career Opportunities!
In this issue, SCIENCE will highlight recruitment advertisements targeted to scientists with computer expertise under a new Bioinformatics banner. This is the perfect place to promote your career opportunities.

Get extra exposure with SCIENCE Classified Advertising On-line...Now completely upgraded!
The best on-line classified advertising service for scientific careers just got better:

- **New easy-to-use format:** An updated design by the Stanford University's High Wire Press makes finding your organization's career opportunities a snap for scientists.

- **New Search Engine:** Now both display and line ads will be posted in a fully searchable text format that allows scientists to narrow their recruitment search by discipline and geographic area.

- **New Internet Staff:** The new SCIENCE Internet staff assures that your electronic recruitment ads receive the same top service and care as your print advertising.

- **New System Enhancements:** Look for additional upgrades and features in 1996!

For more information contact:

**US:** Janis Crowley  
Phone: (212) 496-7704  
Fax: (202) 289-6742

**Europe:** Debbie Cummings  
Phone: +44 (0) 1223 302067  
Fax: +44 (0) 1223 576208

Space Reservation Deadline: 21 May 1996

NOTE: This is a special product advertising supplement. Recruitment advertisements will appear in the traditional classified advertising section in the back of the book.
Myco Pharmaceuticals, a leader in microbial genetic engineering applied to small molecule drug discovery, has an excellent opportunity in its research division. We offer a scientifically rewarding environment and a top-notch research staff in the heart of the Cambridge biotechnology community. Myco seeks candidates with a high level of commitment, diligence, and excellent communication skills.

Senior Scientist
Cell and Molecular Biologist

We seek a motivated and experienced cell biologist with a thorough understanding of the mechanisms that drive cell proliferation in cancer and the immune system. The candidate will lead the Cell Proliferation project and develop the research and drug discovery effort. The search for antineoplastic agents and immune response modifiers will utilize Myco Pharmaceuticals' novel molecular genetic and chemical approaches. Requires Ph.D., postdoctoral, and 9 years' experience in drug discovery and molecular biology with an understanding of the utility of genomics data.

Please send your resume by May 31, 1996 to: Human Resources, Job Code CP, Myco Pharmaceuticals Inc., One Kendall Square, Building 300, Cambridge, MA 02139; FAX (617) 225-3997.

NO PHONE CALLS.

Boehringer Ingelheim

Biologist with a heart of the Cambridge community. Myco seeks candidates with a thorough understanding of the world-class facilities, Boehringer Ingelheim, and the reward- ing opportunity employer. We offer excellent benefits and a supportive, challenging environment. For an opportunity to be part of our growing team, please send your resume and salary requirements to: Dept. BB-RDS3-96R, Boehringer Ingelheim Pharmaceuticals, Inc., 800 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877-0368. NO PHONE CALLS PLEASE.

We are an equal opportunity employer. As a progressive healthcare company, we have no smoking environment.

Quality Control Scientist

NeoRx Corporation, a Seattle-based, publicly held biotechnology company develops targeted biopharmaceuticals to treat cancer and cardiovascular disease.

Our Quality Control department is seeking an innovative scientist who will be responsible for developing and performing assays to ensure the safety, purity, and functionality of products for manufacturing and clinical use. The selected applicant will report to the Manager of Quality Assurance and will:

- Develop and validate methods to test the identity, strength, purity, and functionality of raw materials, bulk substances, and final product.
- Perform quality control analysis in accordance with cGLP and cGMP.
- Create and revise Standard Test Methods and Standard Operating Procedures.
- Perform control charting and statistical analysis of test methods.
- Prepare analytical reports for FDA submissions.

The successful candidate will have a Ph.D. degree in biochemistry and 2-5 years' relevant experience with HPLC, SDS-PAGE, IEF, ELISA, GC, IR, and NMR. Excellent oral and written communication skills are a must.

Interested candidates are invited to forward their resume with a cover letter, in strict confidence, to: Denise Carlson, NeoRx Corporation, 410 West Harrison Street, Seattle, WA 98119; fax (206) 284-7112; NeoRx is an equal opportunity employer.

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Animal Facilities Manager

The Biology Division of the Oak Ridge National Laboratory (ORNL) is seeking an experienced manager for its Mouse Genetics Facility, which houses 125,000 mice and underpins a multidisciplinary genetics program. Responsibilities include oversight of supervision of the animal care staff, animal husbandry, and of procurement of supplies and equipment. The manager must be able to interact effectively and positively with research staff on all issues related to animal care and use.

The ideal candidate is a Doctor of Veterinary Medicine, certified by the American College of Laboratory Animal Medicine with experience in management of mouse facilities. In-depth knowledge of NIH guidelines for animal care and of associated standards for accreditation by the American Association for the Accreditation of Laboratory Animal Care is essential. Excellent interpersonal skills are imperative.

More information about ORNL, the Biology Division, and this position is available on the Internet at the following addresses:

http://www.ornl.gov
http://www.ornl.gov/divisions/biology
http://www.ornl.gov/employment

For immediate consideration, send resume to Dr. F.C. Hartman, Biology Division, Oak Ridge National Laboratory, Dept. SC1-S/17, P.O. Box 2009, Oak Ridge, TN 37831-8007. ORNL is an equal opportunity employer committed to building and maintaining a diverse workforce.

Oak Ridge National Laboratory
ASSISTANT/ASSOCIATE PROFESSOR
MOLECULAR BIOLOGIST

The Department of Horticulture and Landscape Architecture, University of Kentucky, invites applications for a twelve-month, TENURE-TRACK, research and teaching position in Horticulture—Molecular Biology (90% research/10% teaching). The successful candidate must develop a basic research program utilizing molecular genetics or cellular biology to address problems and opportunities important to the advancement of horticulture. The applicant is expected to secure outside funding to support a long-term research program in refereed journals, foster intra- and inter-departmental research, teach a graduate-level course, and advise graduate research students. A Ph.D. in horticulture, molecular genetics, plant physiology, plant biochemistry, or a related plant science field with an emphasis in molecular biology or genetics is required. Educational background and/or experience in horticulture/crop and postdoctoral training is desirable. The individual must function within a team environment and communicate effectively. Applications will be accepted until June 15, 1996 or until a qualified applicant is found. To apply, send a letter highlighting education, experience, and career interests; a résumé; transcripts; and the names and addresses of five references to: Dr. Wayne Ingram, Department of Horticulture and Landscape Architecture Department, University of Kentucky, Lexington, KY 40546-0991. Telephone: 606-257-1601.

Assistant/Associate Director

Derek Bok Center for Teaching and Learning. Full or half-time starting summer 1996. Works to improve understanding of teaching in the Faculty of Arts and Sciences, Harvard University, and develops new programs to improve the teaching skills of faculty. Dean and Chair of the Harvard Faculty Rural and Transurban, located in the University of Massachusetts, Amherst. Salary competitive. Application review begins immediately. For consideration, send a letter of application, CV, and three letters of recommendation to: Dr. Jane Williams, Derek Bok Center, One Oxford Street, Cambridge, MA 02138. Email: jwillkins@fas.harvard.edu. Equal Opportunity/Affirmative Action Employer.

MICROBIAL ECOLOGIST

The Department of Plant Pathology and Microbiology invites applications for a 12-month tenure-track position at the level of ASSISTANT PROFESSOR. The individual will be expected to establish a self-supporting research program with emphasis in agricultural environmental issues related to plants or microbes. Teaching responsibilities will be primarily in our expanding undergraduate Bioenvironmental Sciences program. Applicants should have a Ph.D. in a relevant field and postdoctoral experience. Applicants should begin a search for a position no later than June 15, 1996. Send a letter of application, curriculum vitae, a statement of research and teaching goals, and three letters of reference to: Dr. Neal K. Van Alfen, Department of Plant Pathology and Microbiology, Texas A&M University, College Station, TX 77843-2132. Email: vanalfen@tamu.edu. For departmental information see: http://cyprus.tamu.edu/PLPA/pteptoc.html. An Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS

available immediately to study molecular mechanisms of cellular growth and differentiation, and proliferation in a tumor cell line. The position is funded by the National Institutes of Health and the Department of Defense. Send curriculum vitae and names of three references to: Dr. Dewayne M. Minor, Department of Biochemistry, University of North Carolina, Chapel Hill, NC 27599-7420. Equal Opportunity/Affirmative Action Employer.

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POSITIONS OPEN

MOLECULAR BIOLOGIST

A tenure-track ASSISTANT/ASSOCIATE PROFESSOR is available for a molecular biologist whose research interests in nerve and/or muscle cells complement those of the neurobiology or cardiology faculty in the Department. The successful candidate must have a Ph.D. or equivalent degree, and is expected to establish an independent research program, as well as participate in teaching general physiology, developmental biology, or related courses to graduate and undergraduate students. The deadline for applications is December 1, 1996, and applications will be accepted until A January 1, 1997. For more information, contact Dr. Doug N. Ishii, Search Committee, Department of Physiology, Colorado State University, Fort Collins, CO 80523-1374. Colorado State University is an Equal Opportunity/Affirmative Action Employer. Women and ethnic minorities are strongly urged to apply.

Postdoctoral Position—Lipid and Membranocatalysis— to study liposome-DNA and protein/lipid interactions. Ph.D. or equivalent with background in biochemistry, chemistry, physics, or related field. Experience in lipid metabolism or time resolved fluorometry desirable. Send curriculum vitae and three letters of reference to: Dr. F. Schröder, Department of Molecular Pharmacology, Texas A&M Veterinary Medical Center, Texas A&M University, College Station, TX 77843-4466. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

National Institute of Allergy and Infectious Diseases National Institutes of Health

Position available August 1996. For Ph.D. and/or M.D. with training in virology, molecular biology, and genetics to do research on the molecular pathogenesis of Simian and Human Immunodeficiency Viruses (SIV and HTV-1) using animal models. This position offers independence in research, participates in funded research, and/or independent studies, and will participate in the preparation of grants. Send curriculum vitae and references to: Dr. Robert Alley, NICHD, National Institutes of Health, Medical Sciences, Bldg. 1, Rm. 6A-02, 5650 Fishers Lane, Rockville, MD 20852.

Postdoctoral Fellowship to isolate, characterize, and manipulate polypeptide tumor necrosis factor (TNF) and TNF-related proteins. Send curriculum vitae and references to: Dr. F. Schröder, Department of Molecular Pharmacology, Texas A&M University, College Station, TX 77843-4466. An Equal Opportunity/Affirmative Action Employer.

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**Faculty Position in Retrovirology**

The Ohio State University is undertaking a major initiative in Molecular Life Sciences Research. The Department of Veterinary Biosciences invites applications for a tenure-track faculty position and member of the University Center for Retrovirus Research. The Center consists of 25 faculty plus graduate and postdoctoral students interested in the role of retroviruses in the pathogenesis of human and animal diseases, and is part of the most comprehensive health sciences center in America. Among other resources, The Ohio State University has an NIH-designated comprehensive cancer center, AIDS clinical trials unit, and AIDS malignancy tissue bank. Support facilities include a recently completed BSL-3 containment laboratory, state-of-the-art cytometry facility, and a new non-human primate complex.

The applicant should have a Ph.D. degree or equivalent, relevant postdoctoral experience, and an established record of research excellence in molecular aspects of retrovirus-associated diseases. Senior candidates should have a proven record of obtaining extramural research funds; junior candidates should have excellent potential. Preference will be given to candidates with experience in molecular approaches to the study of retrovirus diseases such as AIDS-cancer model systems, neurobiiology of retroviral infections, and molecular immunobiology. Maintenance of an independent research program, development of collaborative research efforts, and a strong commitment to graduate education are essential.

Applications should include a curriculum vitae, statement of career goals, summary of current research activities, and names of at least four individuals from whom letters of recommendation may be solicited. Academic rank and salary are negotiable. Consideration of applications will begin on June 1, 1996, but applications will be accepted until the position is filled. Address all correspondence to: Dr. Larry Mathes, Chair of Search Committee, Department of Veterinary Biosciences, The Ohio State University, 1925 Coffey Road, Columbus, OH 43210-1093.

The Ohio State University is an EO/AA employer. Women, minorities, Vietnam era veterans, disabled veterans and individuals with disabilities are encouraged to apply.

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**Program Director for Diabetes**

**Scientific Program Manager**

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) is seeking applicants for the position of Director for the Non-insulin Dependent Diabetes Mellitus (NIDDM) Research Program. This position is located in Bethesda, Maryland, and includes a permanent full-time position for a Scientific Program Manager (GS-13 or -14) with a salary range of $52,867 to $85,411 per annum commensurate with qualifications. Physicians may be eligible for Physician Comparability Allowance ranging from $5,000 to $20,000 per year.

The Director for NIDDM Research Program is responsible for planning, developing, managing, and evaluating a multimillion dollar program of grants and contracts which supports high quality basic and clinical studies throughout the world. This individual will be responsible for identity research priorities, organizing scientific meetings and closely interacting with leaders researchers in the field. This grant portfolio focuses on research related to NIDDM including insulin resistance, glucose metabolism, and the mechanism of insulin action. Applicant scientists (Ph.D., M.D., or equivalent) should have a track record of accomplishments in biomedical research related to diabetes and excellent interpersonal and written communication skills.

For application forms and a copy of the requirements, contact the Office of Human Resources Management NIDDK. The deadline for applications is June 17, 1996. Submit an Application for Federal Employment (OF-612), or Resume CV and bibliography to:

Mr. Ronald Slevy, Personnel Officer
Institutes of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, Building 31, Room 9A34, Bethesda, MD 20892; (301) 496-4231

This vacancy announcement and other related information can be obtained via fax by calling (301) 594-2953 or 1-800-728-5627 and requesting TDD ID# 3208.

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**Conference**

Tuskegee University Conference on the Human Genome Project

**Program Description**

This three-day conference, the first of its kind in the South and on a Historically Black College and University campus, is organized for the purpose of increasing awareness in the African American community of the Human Genome Project (HGP). Presentations and workshop discussions by eminent and recognized leaders will focus on the technological and ethical aspects of the HGP with significant opportunities for interaction with students and faculty. In addition to plenary presentations, specific workshops will provide a forum for interactive discussion and exchange of ideas.

*Aristides Patinos* (DOE): The Human Genome Project: What is it? 
*David Botstein* (Stanford University): Of Genes and Genomes 
*Marilyn Thompson* (Vanderbilt University): After the End of the Beginning: The Story of the Breast Cancer Genes 
*Maynard Olson* (University of Washington): Genome Centers: Will They Take the Broader Biological Community With Them? 
*Richard Cooper* (Loyola University): Genes and the Environment: Hypertension in the African Diaspora 
*Luca Cavalli-Sforza* (Stanford University): Race Differences: Genetic Evidence 
*Patricia King* (Georgetown University): The Dilemma of Difference 
*Raymond Zilinskas* (University of Maryland): Global Perspectives on the HGP: HUGO and Other International Initiatives 
*Georgia Degutis* (Howard University): G-RAP: A Model HBCU Genomic Research and Teaching Program 
*Paula Gregory* (NCHGR): NCHGR Educational Programs: Increasing Awareness of the HGP 
*Robert Yusta* (University of Maryland): The Virtual Workplace: A Model Biotechnology Classroom Program 
*Robert Murray* (Howard University): The Ethics of Predictive Genetic Testing: Are the Benefits Worth the Risks? 
*Patricia Jackson* (University of Maryland): Biobibliographical and African-American Concerns About the HGP 
*Jon Beckwith* (Harvard University): Genetics and Racism: Is it Ancient History or How We See the Future? 
*Thomas Murray* (Case Western Reserve): What is this Thing We Call Genetic Discrimination? What Makes it Wrong? 
*Arnold Dicke* (American Academy of Actuaries): Insurance Concerns: Are the Risks Overestimated? 

Volunteer Posters: Please submit a half-page abstract of not more than 250 words on or before June 30, 1996. Limited travel support for minority students presenting posters.

Contact: Ed Smith at 109 Milbank Hall, Tuskegee University, Tuskegee, AL 36088; Phone: 334-727-8028; fax: 334-727-8552; and edsmith@acdl.tuske.edu for details; www.acdl.tuske.edu
POSTDOCTORAL POSITIONS

Cognitive Neuroscience

New laboratory using magnetoencephalography (MEG) and functional MRI seeks energetic researcher to work with normal volunteers and patients. Ph.D. in cognitive experimental psychology, or equivalent, with high level of computer skills required, and experience with rats (Unix and Mac) desirable. We are particularly interested in researchers pursuing attention, memory, and language. Send curriculum vitae, a brief statement of research interests, and three references to: David Poeppe, Ph.D., Biomagnetic Imaging Laboratory, University of California, San Francisco, 515 Parnassus Avenue, San Francisco, CA 94143-0628. FAX: 415-502-4302; Email: poeppe@itsa.ucsf.edu.

POSTDOCTORAL POSITIONS

PHARMACOLOGY

We have a POSTDOCTORAL POSITION available in the Department of Pharmacology to study G-protein coupled receptor signal transduction. Applicants should have a Ph.D. in pharmacology or a related field. Previous experience with radioligand binding assays or bioluminescence or in vitro functional studies is desirable. The ideal candidate will possess excellent written and oral skills, and be motivated to work in a team-oriented environment. Respond to: Department 179, Synaptic Pharmaceutical Corporation, 215 College Road, Paramus, NJ 07652.

RESEARCH, PHARMACOLOGY

POSTDOCTORAL POSITIONS

MOLECULAR ENDOCRINOLOGY

Two POSTDOCTORAL POSITIONS are available immediately for an NCI training program in molecular and cellular mechanisms of carcinogenesis at The University of Texas (U.T.) M.D. Anderson Cancer Center—Science Research Core. Research in the following areas: DNA repair and mutagenesis, carcinogen metabolism and adduct formation, tumor promotion, role of oncogenes and/or tumor suppressor genes in multistage carcinogenesis, normal and tumor cell differentiation, retrovirology, chemoprevention, and nutrition in cancer. Applicants must be U.S. citizens or permanent residents and must have a Ph.D., M.D., or D.V.M. degree. For application forms, contact: Dr. Thomas Slaga, Director, U.T. Science Park Research Division, P.O. Box 389, Smithville, TX 78957. Telephone: 512-237-2403. We are an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITIONS

in biochemistry to study lipid-modification of ocular proteins. Previous work on fatty acid acylation and prenylation of proteins is desirable. Ph.D. required. The position is available starting September 1996, and will provide a salary of $28,000 plus benefits. Send curriculum vitae, statement of research experience, and names, addresses, and telephone numbers of three references to: Dr. Richard Cenedella, Department of Biochemistry, Kirkville College of Ophthalmic Medicine, Kirkville, MO 65351. Telephone: 816-626-2347; FAX: 816-626-2728. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS

IMMUNOLOGY AND INFECTIOUS DISEASES

A position is available immediately for a Ph.D. or M.D. to investigate mechanisms of host resistance against opportunistic pathogens. Project includes study of role of cellular immunity and cytokines. Appropriate prior experience in immunology/microbiology/Cell biology preferred. Send curriculum vitae and three references to: Dr. Yasuhiro Suzuki, Research Institute, Palo Alto Medical Foundation, 860 Bryant Street, Palo Alto, CA 94301.

Three POSTDOCTORAL RESEARCH ASSOCIATE positions, funded by NIH, are available September 1, 1996, to study the acute and chronic aspects of the negative effect of alcohol on cardiovascular neurobiology. Studies will include in vivo and in vitro measurements in chronically instrumented conscious rats as well as central administration of drugs to investigate the role of neurotransmitters to work out pathways in the brain. Candidates must have a Ph.D., M.D., D.V.M., or equivalent degree. Familiarity with molecular neurobiology and autoradiography are desirable. Send curriculum vitae, a brief statement of research interests, and names of three references to: Dr. Abdel A. Abdel-Rahman, Department of Pharmacology, East Carolina University School of Medicine, Greenville, NC 27858. The NIH research grant requires proper documentation of identity and employment at the time of employment. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

Angiotensin Converting Enzyme (ACE) and Renal Development, Department of Pathology, Emory University. An NIH-funded position is immediately available to study knockout mice lacking ACE. These animals have a developmental defect of the renal medulla and cannot concentrate urine (Lab. Invest., May 1996). The project is a wonderful opportunity to study the role of ACE in growth and development. Applicants should have a Ph.D. or M.D. with experience in molecular biology and protein biochemistry. Send curriculum vitae, references, reprints, and examples of publications to: Dr. David M. Shon, Department of Pathology, Room 2309, WMRB, 1639 Pierce Drive, Emory University, Atlanta, GA 30322. Emory University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP POSITION

POSTDOCTORAL FELLOWSHIP position available immediately to work on the mechanism of translation regulation as it relates to growth control and oncogene activation. Experience with yeast genetics, molecular biology, and biochemistry is required.

Send complete curriculum vitae, statement of current and future research directions, and three reference letters to: Ricky DeBenedetti, Ph.D., Department of Biochemistry and Molecular Biology, LSU Medical Center, 1500 Kings Highway, Shreveport, LA 71130-3932. FAX: 318-675-5180. An Affirmative Action/Equal Opportunity Employer.

THE J. DAVID GLADSTONE INSTITUTES

POSTDOCTORAL fellow position available at the J. David Gladstone Institute of Cardiovascular Disease, to study mouse models of lipoprotein metabolism utilizing transgenic technology. The candidate must have experience with molecular biology required; experience with transgenic/knockout mice preferred. Please send curriculum vitae, statement of research experience and three references to: Dr. R. Rapp, Ph.D., Center for Behavioral Neuroscience, State University of New York at Stony Brook, Stony Brook, NY 11794-2575. Deadline for submission of applications is June 17, 1996. State University of New York at Stony Brook is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

available to study the expression, identification, and regulation of estrogen receptors. Experience and/or competency in molecular biology and/or cell biology is desirable. Experience with nonhuman primate research is highly desirable. Submit curriculum vitae, statement of interest, and three letters of recommendation to: Peter J. Rapp, Ph.D., Department of Behavioral Neuroscience, University of Virginia, 101 Old Chemistry, Charlottesville, VA 22908. FAX: 413-826-3708. Affirmative Action/Equal Opportunity Employer.

STEROID HORMONE RECEPTORS

UNIVERSITY OF VIRGINIA

POSTDOCTORAL POSITION available to study the expression, identification, and regulation of estrogen receptors in the heart. Experience and/or competency in molecular biology and/or cell biology is desirable. Experience with nonhuman primate research is highly desirable. Submit curriculum vitae, statement of interest, and three letters of recommendation to: C. Desjardins, Medical Center Box 391, University of Virginia, Charlottesville, VA 22908. Email: repod@virginia.edu.

POSTDOCTORAL POSITION available to study the expression, identification, and regulation of estrogen receptors in the heart. Experience and/or competency in molecular biology and/or cell biology is desirable. Experience with nonhuman primate research is highly desirable. Submit curriculum vitae, statement of interest, and three letters of recommendation to: C. Desjardins, Medical Center Box 391, University of Virginia, Charlottesville, VA 22908. Email: repod@virginia.edu.

POSTDOCTORAL POSITION in Insect Molecular Biology to characterize genes encoding pheromone biosynthetic enzymes. Experience with protein expression also desirable. One year appointment, renewable for another year, to study the role of saliva in pheromone delivery. Salary: $22,000 per year. Send curriculum vitae, publication list, and names of three references to: Dr. Wendel Roels, Department of Entomology, New York State Agricultural Experiment Station, Cornell University, Geneva, NY 14456.

CYSTIC FIBROSIS RESEARCH

POSTDOCTORAL POSITIONS available to study sodium and chloride channel physiology and molecular biology in normal and Cystic Fibrosis–affected epithelial tissues. Experience is on ion channels, pharmacology and/or molecular biology. Experience in cDNA cloning and expression is desirable. Send curriculum vitae and the names of three references to: Dr. Charles M. Slade, Department of Physiology, Johns Hopkins University School of Medicine, 725 North Wolfe Street, Baltimore, MD 21285. Email: wslade@wpo.jhu.edu.
Development of New Therapeutic Approaches for the Treatment of Childhood Cancers

Tenure-track position available (equivalent to that of an Assistant Professor) to develop new therapeutic approaches for the treatment of childhood cancers with an emphasis on central nervous system tumors. These new therapies will incorporate innovative approaches based on the biology of the tumors and will be evaluated in vitro and animal models. Translational clinical trials designed to test the most promising new approaches are performed in children with cancers that are refractory to standard treatments. Collaboration with other interested children's cancer centers and cooperative groups is encouraged. Resources include laboratory space, shared facilities, equipment and supplies, a part-time research nurse, and support for one technician and postdoctoral fellows from the clinical training program. Candidate must have an M.D. degree with training and experience in pediatric hematology/oncology, and in performing research and clinical trials in children with cancer. Please send a cover letter, curriculum vitae, bibliography, and a two-page statement including research interests and career goals to Lee Helman, M.D., Pediatric Branch, National Cancer Institute, Building 10, Room 13N240, MSC 1928, Bethesda, MD 20892-1928. In addition, arrange to have letters of reference sent to the same address from three scientists who can provide an evaluation of your qualifications. Applications must be received within six weeks of the publication of this advertisement. The National Institutes of Health is an Equal Opportunity Employer.

SALSBURY CHAIR IN VETERINARY MEDICINE

Department of Microbiology, Immunology and Preventive Medicine (MIPM), Colleges of Agriculture and Veterinary Medicine, Iowa State University. The department and the colleges are seeking to identify qualified individuals for the endowed Salsbury Chair at the rank of full professor (with tenure). The appointee will have an outstanding record of competitive funding and an international reputation in the area of epidemiology of human foodborne diseases of animal origin. The extensive Ames research community offers unique opportunities to persons with an interest in food safety and epidemiology. The incumbent will be expected to participate in academic activities of the department, including instruction in the professional curriculum, direction of graduate students, research and outreach. Persons with a D.V.M., Ph.D., or equivalent and who are Board certified in preventive medicine or epidemiology are preferred. Names of nominees should be submitted to the chair of the search committee. Interested individuals should submit full curriculum vitae to: Dr. D. L. Harris, Chair, Search Committee, MIPM, 207 Science I, ISU, Ames, IA 50011-3211 (internet: hharris@iastate.edu; telephone: 515-294-1664). Deadline for receipt of applications: 1 August 1996 or until position is filled. Confidentiality will be maintained as long as required.

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SALSBURY CHAIR IN VETERINARY MEDICINE

Director, NIH Cardiovascular Research Training Program, Mayo Clinic, 200 First Street, SW, Rochester, MN 55905. Applications will be considered until September 1, 1996. Mayo Foundation is an affirmative action and equal opportunity educator and employer.

The Division of Cardiovascular Diseases of the Mayo Clinic and Foundation invites applications for an established investigator position at the rank of Associate or full Professor. Applicants should have an M.D. or Ph.D. degree and an established record of accomplishment in basic cardiovascular research such as in molecular or cellular biology which focuses upon endothelial, vascular smooth muscle or cardiac myocyte biology. Excellent institutional resources and long-term support are available. Written applications including CV, three letters of recommendation and a description of research interests should be sent to: John C. Burnett, Jr., M.D., Cardiovascular Chair for Research, Director, NIH Cardiovascular Research Training Program, Mayo Clinic, 200 First Street, SW, Rochester, MN 55905. Applications will be considered until September 1, 1996. Mayo Foundation is an affirmative action and equal opportunity educator and employer.
Showcase Your Scientific Career Opportunities On-line for Two Months

Bioinformatics Careers Forum

Beginning on July 12, the exciting topic of careers in bioinformatics will be discussed in a two-month interactive forum on SCIENCE’s Next Wave, a new on-line publication. During that time, your organization’s logo will appear on this forum and will be linked to a listing of your scientific career opportunities or your homepage, all for only $2,500. Because this publication is on-line, you will have the flexibility to change the career opportunities posted throughout the two-month period. Only SCIENCE brings you this opportunity to make information about careers at your organization accessible to the thousands of scientists who visit SCIENCE’s World Wide Web site every day.

For more information contact: Janis Crowley
Phone: (202) 326-6532; Fax: (202) 682-0816

http://sci.aaas.org/nextwave
Tenure-Track Position
Assistant Professor Equivalent
Molecular Pathology and Epidemiology
Laboratory of Human Carcinogenesis
Division of Basic Science

A tenure-track position is available for an M.D. or M.D./Ph.D. scientist to develop an independent research program investigating the molecular pathogenesis of human lung, liver, and esophageal cancer and mutational spectra of human cancer. Candidates should have extensive experience and record of scientific accomplishment in molecular pathology of human cancer. Candidates should have evidence of independent research; a substantial number of quality, peer-reviewed published reports; numerous invited presentations at national and international conferences; and Board eligibility or certification in anatomic pathology. Support by a technician, a postdoctoral fellow, and a fully equipped laboratory (200 sq. ft.) will be provided. A two-page statement of research interests and goals should be submitted in addition to three letters of recommendation and a curriculum vitae to: MS. Bonnie Richards, National Cancer Institute, NIH, 41 Library Drive, MSC 5055, Room A206, Bethesda, MD 20852, (301) 496-2288.

Applications must be received by July 12, 1996. The National Cancer Institute is an Equal Opportunity Employer. Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation, or membership or non-membership in an employee organization.

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 six basic science departments within the School of Medicine, and has an outstanding research reputation. 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 is in the process of expanding each of the basic science departments in the School of Medicine, and has an exceptional recruitment package available, including multiple new tenure-track positions (at both the junior and senior level), 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 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, Department of Molecular Physiology and Biophysics, University of Virginia School of Medicine Box 449, Charlottesville, Virginia 22908.

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

Technical Manager for a Core Image Analysis Facility

We seek a technical manager to oversee day-to-day computer-based operations in a sophisticated Core Digital Imaging Facility that serves members of the Institute of Molecular Medicine and Genetics at the Medical College of Georgia. Duties will include assisting faculty, postdoctoral fellows, and students in the use of imaging equipment; scheduling usage; maintaining computer hardware, peripherals, microscopes, and software in good working order; and performing system software and hardware upgrades as needed. Good working knowledge of Unix and Mac platforms is essential. Candidates who have experience with fluorescent microscopy, analog and digital video cameras, and/or network management will be given priority. Good interpersonal and organizational skills are essential. Send C.V., names of three references, and indication of which faculty member is of interest to: Ann Gambill, Institute of Molecular Medicine and Genetics, Medical College of Georgia, Augusta, GA 30912-3175. MCG is an EEO/AAE.
On 14 June, SCIENCE will publish a special advertising section devoted to career opportunities for scientists with disabilities. This section will examine the steps being taken by employers to make their work environments accessible to all scientists.

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This issue will be distributed to the AAAS Resource Group of Scientists and Engineers with Disabilities.

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**Special Advertising Supplement**

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Issue date: 14 June 1996 • Advertising space reservation deadline: 21 May
The Cornell High Energy Synchrotron Source (CHESS), a user-oriented national facility, provides state-of-the-art synchrotron x-ray facilities to the scientific community at large. CHESS supports a multifaceted research and development program. About 300 scientists per year from universities, national laboratories, and industry use the high intensity, high energy x-ray photon flux produced by the Cornell Electron Positron Storage Ring (CESR). CHESS provides high level staff support for novel experimental applications, particularly in the materials and biological sciences. CHESS also houses the NIH-funded Macromolecular Crystallography Research Resource (MacCHESS), which provides specialized assistance for structural biology. The Director serves as the chief administrative officer of CHESS (about half-time) and half-time as a professor in an academic department and as Principal Investigator for the cooperative agreement with the National Science Foundation (NSF). Selection will be based upon experience consistent with the goals of the CHESS which span research and user needs. Demonstrated scientific leadership in the field of synchrotron radiation and proven administrative ability essential. Send a letter of application with complete resume to:

Dr. N. R. Scott, Vice President for Research and Advanced Studies, Cornell University, 314 Day Hall, Ithaca, New York 14853, Telephone: (607) 255-7200, Fax: (607) 255-9020, E-mail nnr5@cornell.edu.

Cornell University is an equal opportunity, affirmative action employer and educator.

**ANIMAL/MOLECULAR AND MICROBIOLOGY**

The Department of Biology of the University of Waterloo invites applications for a minimum of two tenure track assistant professorships, with an anticipated starting date of 01 September 1996. Applicants must have a Ph.D., preferably with postdoctoral experience, and demonstrate outstanding ability or potential in research and teaching. Duties include independent research, teaching at the undergraduate and graduate levels, and graduate student supervision. The Department is supportive of interdisciplinary and collaborative research. We currently require teaching in the areas of animal physiology, genetics, immunology, and microbiology.

One search seeks candidates in the area of animal/molecular biology who are interested in studying the molecular biology of an animal system. We will, for example, consider candidates who use recombinant DNA techniques to study physiological (e.g. endocrinology, immunology, neurobiology or developmental biology, etc.) problems in animal systems.

The second search seeks candidates in the area of microbiology with demonstrated competence in the molecular aspects of the discipline.

Salary range commensurate with qualifications and experience. Applicants should send their curriculum vitae, the names of three individuals willing to furnish letters of reference, and an outline (1-2 pages) of their proposed research program to: Dr. D. C. O. Dixon, Professor and Chair, Department of Biology, Faculty of Science, University of Waterloo, Waterloo, Ontario, N2L 3G1 CANADA.

The closing date for applications is June 30, 1996.

In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. The University of Waterloo encourages applications from qualified individuals, including women, members of visible minorities, native peoples, and persons with disabilities. These appointments are subject to the availability of funds.

Additional information on the Department is available at http://www.science.uwaterloo.ca/biology/biology.html
Chair of Biochemistry
(Re-advertisement - Ref: RF-95/96-75)

Applications for the Chair are invited from individuals of outstanding academic calibre who will be able to provide strong leadership in promoting excellence in teaching and research. Expertise of the applicant should lie in the broad discipline of molecular life sciences.

The Department of Biochemistry provides a high standard of teaching in Biochemistry and Molecular Biology for the Faculties of Medicine, Science and Dentistry. Together with about 40 postgraduate students, they actively pursue research in molecular genetics, molecular embryology, biochemistry, immunology, regulation of cell growth, and structure and function of proteins and complex carbohydrates. Research facilities are excellent and projects are well supported. Ongoing development/expansion plans entail construction of a new preclinical building, targeting 2002 for completion. There are strong links with other basic science and clinical departments in the University and with several institutions in China and overseas. There is also industrial support for applied research and a training centre in transgenic technology has been established within the Department.

The post is available on contractual or superannuable terms, negotiated with the appointee and includes substantial fringe benefits, such as travel, children's education, medical benefits and housing, the latter at a charge of a percentage of salary, currently 7.5%.

Annual salary will be within the professorial range, of which the minimum is HK$1,007,220 and the average is HK$1,245,780 (approx. US$130,808 & US$161,790 respectively; US$ equivalents as at 23 April 1996). At current rates, salaries tax will not exceed 15% of gross income. The appointee on contractual terms will be given a 15% (taxable) terminal gratuity. The appointee can expect to command a salary commensurate with his/her experience.

Further particulars and application forms may be obtained either on WWW at http://www.hku.hk, or from the Appointments Unit, Registry, The University of Hong Kong, Hong Kong (Tel: (852) 2540 8735/2559 2068; E-mail: APPTUNIT@REG.HKU.HK).

Closes: 14 June 1996.

University of Zürich
The Department of Zoology invites applications for a
Research Position in Ecology

Community ecology, behavioral ecology, physiological ecology, population genetics or evolutionary biology. Our research projects aim at combining theoretical and empirical as well as ultimate and proximate approaches to the study of adaptation. A major research goal is directed at amphibians, but birds and other vertebrate taxa are also under study.

The position is comparable to an Assistant Professorship with a competitive salary. Applicants must possess a Ph.D. and should have some postdoctoral experience and a strong experimental and quantitative background. The successful candidate is expected to participate in ongoing research and teaching programs and to develop his/her own program with independent research funding and supervision of graduate students.

The position is available from 1 October 1996 for a period of three years and is potentially renewable to a maximum of six years in three steps of one year each. If you are interested, please send me your application with curriculum vitae, list of publications, summary of research goals and three letters of reference.

Prof. Dr. Heinz-Ulrich Rey, Zoologisches Institute der Universität Zürich
Winterhurerstrasse 190, CH-8057 Zürich, Switzerland
Telefax: 01/361 31 85 E-mail: ulreyer@zoool.unizh.ch

American Paralysis Association Research Awards

Effective July 15, 1996, the American Paralysis Association will accept proposals for one-year awards at a maximum funding level of $50,000 (including direct and indirect costs, 10% for the latter). Program goals are to: (1) encourage promising new investigators to undertake research on regeneration and functional recovery, particularly as it relates to spinal cord injury; (2) encourage scientists established in other fields to transfer their expertise and focus to spinal cord research; and (3) enable investigators with novel ideas to develop the pilot data needed to apply for larger awards from the National Institutes of Health and other funding sources. These APA awards may be used to provide support to well-established investigators as well as to qualified postdoctoral scientists.

Proposals are accepted from American and foreign investigators and requests for continued support will be considered, but reviewed as competing renewal applications.

Current research program guidelines and application forms may be obtained by calling APA at 201-379-2690.

Department of Biomedical Science

As a result of a new contract between the University of Sheffield and the ASEAN Medical College in Malaysia, the University of Sheffield Medical School will be admitting an additional 120 medical students in 1997 leading to a class of 320 students per year. The Department of Biomedical Science is now seeking two highly motivated individuals to assist in adapting our Anatomy and Physiology courses for teaching this increased number of students and to participate in that teaching. The appointees will also be expected to develop an active research programme in one of the growing areas of activity within the Department, notably Cell Differentiation and Developmental Biology, Cell Membrane Function and Signal Transduction, and Neuroscience.

Salary in the range £15,154 - £19,848, according to experience.

Closing date for applications: 31 May 1996. (Ref: R903)

Further particulars from the Director of Human Resource Management, The University of Sheffield, Western Bank, Sheffield S10 2TN, UK Tel: +44 114-279 9800.

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POSTDOCTORAL POSITION

TRUDEAU INSTITUTE, INC.

A POSTDOCTORAL POSITION in immunology is available for a person with training in cellular and/or molecular immunology to study the immune response to bacterial infections. The laboratory is currently emphasizing immunity to experimental tuberculosis. The Trudeau Institute is a well-endowed, not-for-profit basic research institute with modern facilities, up-to-date equipment, in-house animal production, efficient management, and an international reputation for excellence. The Trudeau Institute is located on the shore of Saranac Lake, eight miles from Lake Placid. Competitive salary and fringe benefits are offered and institute housing will be made available. Applications consisting of a curriculum vitae and the names and addresses of three references should be addressed to:
Robert J. North, Ph.D., D.Sc.
Director
Trudeau Institute, Inc.
P.O. Box 241
Saranac Lake, NY 12983

POSTDOCTORAL POSITION

MOLECULAR BIOLOGY OF Color Vision. A position is available immediately to study molecular biology of vertebrate vision, including characterization of opsin genes and structure/function relationships of opsins. Desirable experience with cell and molecular methodology (cell culture, protein biochemistry, recombinant DNA techniques) is required and a strong interest in molecular evolution is desirable. Send curriculum vitae with statement of research interests, and three references to:
Dr. Shozo Yokoyama, Department of Biology, Syracuse University, 130 College Place, Syracuse, NY 13244. Telephone: 315-443-9166; FAX: 315-443-2012. Email: yokoyama@mailbox.syr.edu. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

DEVELOPMENTAL NEUROBIOLOGY

Position available to study neuronal differentiation and development in the frog Xenopus. Experience in electrophysiology is desirable. Please send curriculum vitae and the names of three references to:
Dr. Lea Ziskind-Conhaim, Department of Physiology and Center for Neuroscience, 1300 University Avenue, University of Wisconsin Medical School, Madison, WI 53706. FAX: 608-265-5512.

NASA RESEARCH ANNOUNCEMENTS FOR MICROGRavitY BIOTechnology

The National Aeronautics and Space Administration (NASA) announces a solicitation for scientific research PROPOSALS. Release date for the Announcement is May 24, 1996. NASA Research Announcement (NRA-96-OLMAS-03) Microgravity Biotechnology: Research and Flight Experiment Opportunities Letters of Intent due: July 19, 1996 Proposals requested by these announcements may be for ground-based research investigations or space flight experiments designed for spacecraft such as the Space Shuttle or the International Space Station. The solicitation is available electronically via the Internet at https://peer1.idl.nasa.gov. Paper copies of this announcement are available to interested investigators by calling 202-584-4180 and leaving a voice mail message. Please leave your full name and address, including zip code and telephone number with area code. Questions regarding this research announcement can be addressed to: NASA Headquarters, Code UG/MPS Proposals Office, 300 E Street, SW, Room 5570, Washington, DC 20546, Attn: Dr. Stephen Davison, Telephone: 202-358-0813; Email: stephen.davison@hq.nasa.gov.
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